

170-080  
170-082  
170-084  
170-085

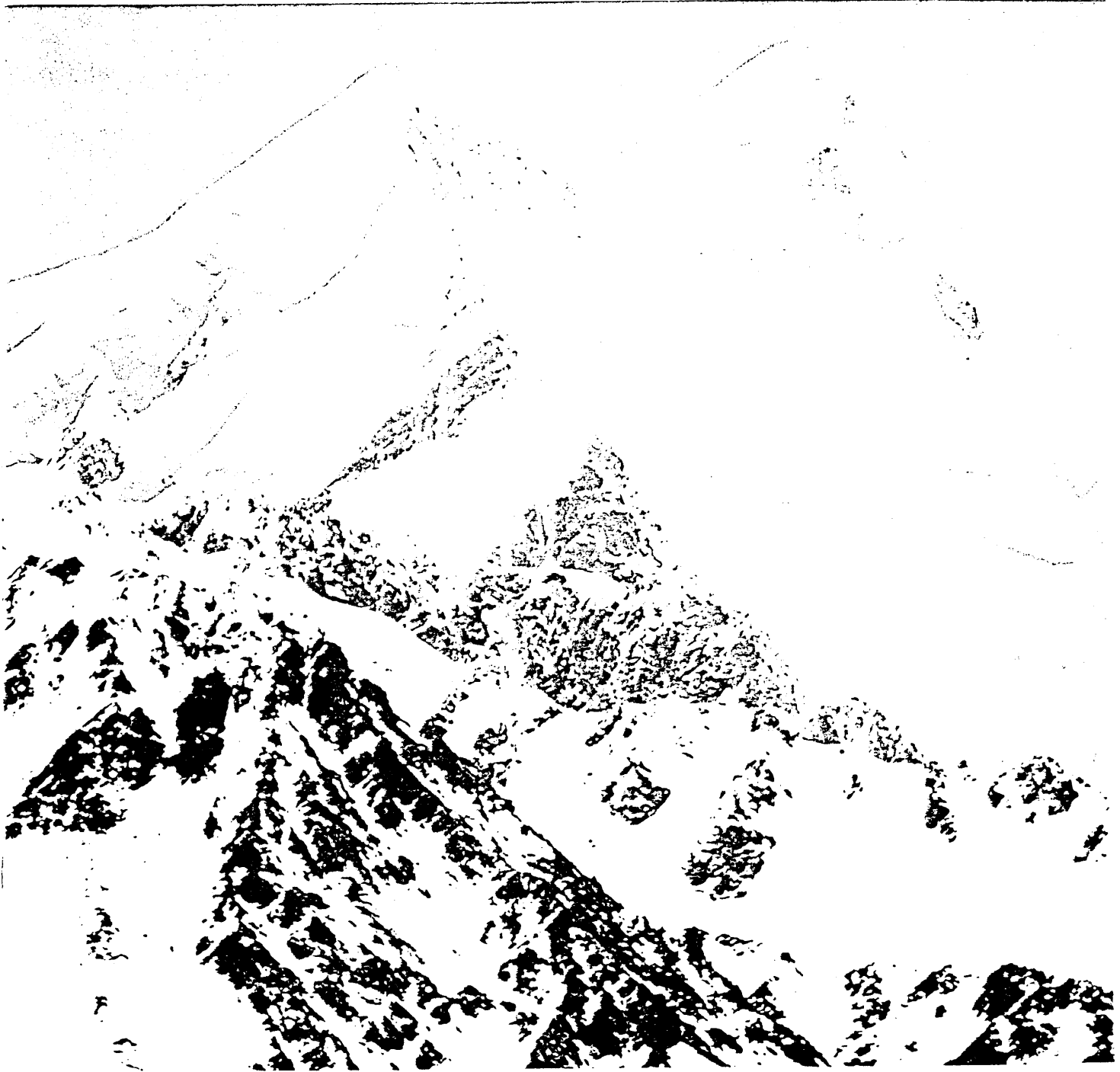


SHORT FORM CATALOG

# **HEAT SINKS AND DISSIPATORS**

FOR SEMICONDUCTORS, INTEGRATED CIRCUITS AND MICROCIRCUITS

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# A Complete Line of Heat Sinks/Dissipators for Transistors, Diodes, ICs and Microcircuits.

This short form catalog lists only our most popular devices. If you don't see the device which precisely meets your needs, chances are excellent that your local technical sales representative can recommend the exact part from our general catalog. See back cover for representatives and distributors in your area.

## Various Standard Materials and Finishes

IERC products are available in a variety of hole patterns, mounting configurations, materials and finishes. Space does not permit listing ordering instructions for all these variations. Additional information is available from our staff of the engineering sales representatives.

## Custom Designs

Tooling is already available for hundreds of variations of the standard products listed here, so many special requirements can be met without tooling charges. For special problems, IERC has a large staff of design and applica-

tions engineers to provide technical assistance.

**Thermal data:** The thermal resistance values listed in this short form catalog are intended to help an engineer select a suitable dissipator for a Natural-Convection application. For thermal and mechanical information on all of IERC's board-mounted dissipators refer to the IERC General Catalog.

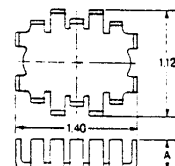
**Dimension information:** All dimensions contained in this short form catalog are for reference use only. Contact IERC for dimensions with tolerances and standard part drawings.

## Heat dissipators for metal case, case-mounted semiconductors



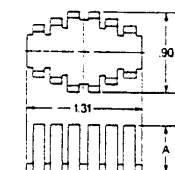
### LB Series

| Semiconductor Case Type | $\theta$ °C/W. | Part Number |               |                | "A" Dim. |
|-------------------------|----------------|-------------|---------------|----------------|----------|
|                         |                | Unplated    | Comm'l. Black | Military Black |          |
| TO-66                   | 19.7           | LB66B2U     | LB66B2CB      | LB66B2B        | .31      |
| TO-66                   | 17.1           | LB66B1U     | LB66B1CB      | LB66B1B        | .50      |



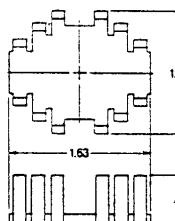
### LA—A Series

| Semiconductor Case Type | $\theta$ °C/W. | Part Number |               |                | "A" Dim. |
|-------------------------|----------------|-------------|---------------|----------------|----------|
|                         |                | Unplated    | Comm'l. Black | Military Black |          |
| TO-66                   | 28.9           | LA066A1U    | LA066A1CB     | LA066A1B       | .25      |
| TO-66                   | 19.7           | LA066A2U    | LA066A2CB     | LA066A2B       | .50      |
| TO-66                   | 16.3           | LA066A3U    | LA066A3CB     | LA066A3B       | .75      |
| TO-66                   | 14.4           | LA066A4U    | LA066A4CB     | LA066A4B       | 1.00     |



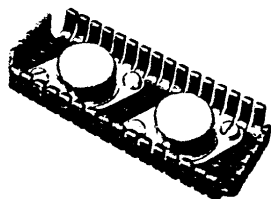
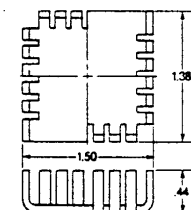
### LA—B Series

|          |      |          |           |          |      |
|----------|------|----------|-----------|----------|------|
| TO-66    | 14.3 | LA066B2U | LA066B2CB | LA066B2B | .50  |
| TO-66    | 12.1 | LA066B3U | LA066B3CB | LA066B3B | .75  |
| TO-66    | 10.7 | LA066B4U | LA066B4CB | LA066B4B | 1.00 |
| TO-66    | 9.8  | LA066B5U | LA066B5CB | LA066B5B | 1.25 |
| TO-3     | 14.1 | LA0382U  | LA0382CB  | LA0382B  | .50  |
| TO-3     | 12.0 | LA0383U  | LA0383CB  | LA0383B  | .75  |
| TO-3     | 10.3 | LA0384U  | LA0384CB  | LA0384B  | 1.00 |
| TO-3     | 9.3  | LA0385U  | LA0385CB  | LA0385B  | 1.25 |
| Any TO-3 | 15.3 | LA363B2U | LA363B2CB | LA363B2B | .50  |
| Any TO-3 | 12.9 | LA363B3U | LA363B3CB | LA363B3B | .75  |
| Any TO-3 | 11.2 | LA363B4U | LA363B4CB | LA363B4B | 1.00 |
| Any TO-3 | 10.0 | LA363B5U | LA363B5CB | LA363B5B | 1.25 |



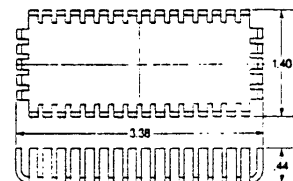
### UP3 Series

| Semiconductor Case Type | $\theta$ °C/W. | Part Number |               |                |
|-------------------------|----------------|-------------|---------------|----------------|
|                         |                | Unplated    | Comm'l. Black | Military Black |
| TO-66                   | 14.2           | UP3-T066-U  | UP3-T066-CB   | UP3-T066-B     |
| TO-3                    | 13.6           | UP3-T03-U   | UP3-T03-CB    | UP3-T03-B      |
| Universal               | —              | UP3-425-U   | UP3-425-CB    | UP3-425-B      |



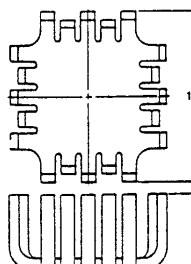
### UP10 Series

| Semiconductor Case Type | $\theta$ °C/W. | Part Number |               |                |
|-------------------------|----------------|-------------|---------------|----------------|
|                         |                | Unplated    | Comm'l. Black | Military Black |
| 2 Ea. TO-3              | 7.7            | UP10-T03-2U | UP10-T03-2CB  | UP10-T03-2B    |
| 2 Ea. Universal         | —              | UP10-426-2U | UP10-426-2CB  | UP10-426-2B    |
| 1 Ea. TO-3              | 8.7            | UP10-T03-U  | UP10-T03-CB   | UP10-T03-B     |



### UP, UP1 and UP2 Series

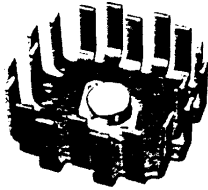
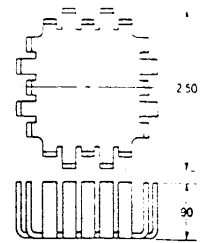
| Semiconductor Case Type | $\theta$ °C/W. | Part Number |               |                | "A" Dim. |
|-------------------------|----------------|-------------|---------------|----------------|----------|
|                         |                | Unplated    | Comm'l. Black | Military Black |          |
| TO-66                   | 11.5           | UP1-T066-U  | UP1-T066-CB   | UP1-T066-B     | .50      |
| TO-66                   | 9.6            | UP2-T066-U  | UP2-T066-CB   | UP2-T066-B     | .75      |
| TO-66                   | 7.9            | UP-T066-U   | UP-T066-CB    | UP-T066-B      | 1.00     |
| TO-3                    | 10.4           | UP1-T03-U   | UP1-T03-CB    | UP1-T03-B      | .50      |
| TO-3                    | 8.3            | UP2-T03-U   | UP2-T03-CB    | UP2-T03-B      | .75      |
| TO-3                    | 7.1            | UP-T03-U    | UP-T03-CB     | UP-T03-B       | 1.00     |
| Universal               | —              | UP1-420-U   | UP1-420-CB    | UP1-420-B      | .50      |
| Universal               | —              | UP2-420-U   | UP2-420-CB    | UP2-420-B      | .75      |
| Universal               | —              | UP-420-U    | UP-420-CB     | UP-420-B       | 1.00     |





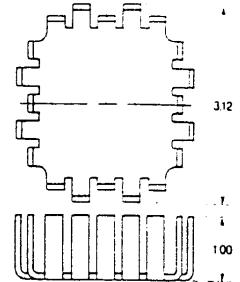
### HP1 Series

| Semiconductor Case Type | $\theta$ °C/W | Part Number |               |                |
|-------------------------|---------------|-------------|---------------|----------------|
|                         |               | Unplated    | Comm'l. Black | Military Black |
| TO-66                   | 6.0           | HP1-T066-U  | HP1-T066-CB   | HP1-T066-B     |
| TO-3                    | 5.4           | HP1-T03-U   | HP1-T03-CB    | HP1-T03-B      |
| Universal               | —             | HP1-420-U   | HP1-420-CB    | HP1-420-B      |



### HP3 Series

| Semiconductor Case Type | $\theta$ °C/W | Part Number |               |                |
|-------------------------|---------------|-------------|---------------|----------------|
|                         |               | Unplated    | Comm'l. Black | Military Black |
| TO-66                   | 5.0           | HP3-T066-U  | HP3-T066-CB   | HP3-T066-B     |
| TO-3                    | 4.4           | HP3-T03-U   | HP3-T03-CB    | HP3-T03-B      |
| Universal               | —             | HP3-420-U   | HP3-420-CB    | HP3-420-B      |

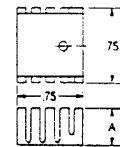


Heat dissipators for plastic case, lead-mounted semiconductors



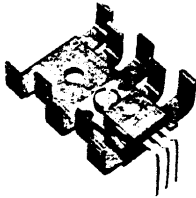
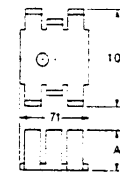
### PC Series

| Semiconductor Case Type | $\theta$ °C/W | Part Number |               |                | "A" Dim. |
|-------------------------|---------------|-------------|---------------|----------------|----------|
|                         |               | Unplated    | Comm'l. Black | Military Black |          |
| TO-126/127/220          | 27.3          | PC1-1U      | PC1-1CB       | PC1-1B         | .38      |
| TO-126/127/220          | 27.3          | PC1-3U*     | PC1-3CB       | PC1-3B         | .38      |
| TO-126/127/220          | 22.0          | PC4-1U      | PC4-1CB       | PC4-1B         | .75      |
| TO-126/127/220          | 22.0          | PC4-3U*     | PC4-3CB       | PC4-3B         | .75      |



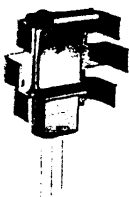
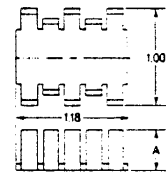
### PA Series

| Semiconductor Case Type | $\theta$ °C/W | Part Number |               |                | "A" Dim. |
|-------------------------|---------------|-------------|---------------|----------------|----------|
|                         |               | Unplated    | Comm'l. Black | Military Black |          |
| TO-126/127/220          | 26.8          | PA1-1U      | PA1-1CB       | PA1-1B         | .50      |
| TO-126/127/220          | 30.0          | PA2-1U      | PA2-1CB       | PA2-1B         | .31      |



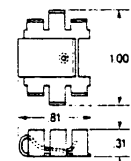
### PB Series

| Semiconductor Case Type | $\theta$ °C/W | Part Number |               |                | "A" Dim. |
|-------------------------|---------------|-------------|---------------|----------------|----------|
|                         |               | Unplated    | Comm'l. Black | Military Black |          |
| TO-126/127/220          | 22.1          | PB1-1U      | PB1-1CB       | PB1-1B         | .50      |
| Dual                    | —             | PB1-2U      | PB1-2CB       | PB1-2B         | .50      |
| TO-126/127/220          | 25.0          | PB2-1U      | PB2-1CB       | PB2-1B         | .31      |
| TO-126/127/220          | —             | PB2-2U      | PB2-2CB       | PB2-2B         | .31      |



### PSC2 Series

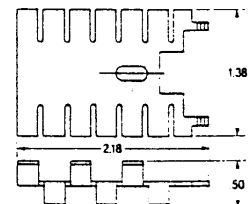
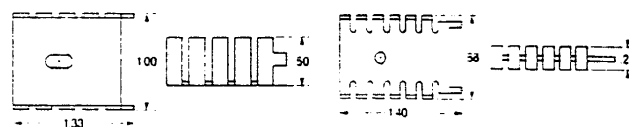
| Semiconductor Case Type | $\theta$ °C/W | Part Number |               |                |
|-------------------------|---------------|-------------|---------------|----------------|
|                         |               | Unplated    | Comm'l. Black | Military Black |
| TO-202                  | 42.9          | PSC2-1U     | PSC2-1CB      | PSC2-1B        |
| TO-220                  | 41.7          | PSC2-2U     | PSC2-2CB      | PSC2-2B        |
| Mota. 152               | 46.9          | PSC2-3U     | PSC2-3CB      | PSC2-3B        |
| TO-126                  | 45.5          | PSC2-4U     | PSC2-4CB      | PSC2-4B        |
| TO-127                  | 37.5          | PSC2-5U     | PSC2-5CB      | PSC2-5B        |

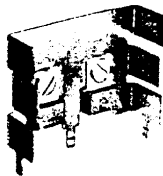


Vertically mounted heat dissipators with board-mounting tabs

### Vertical Tab Mounted Dissipators

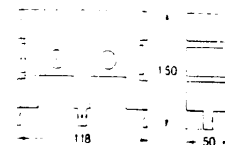
| Semiconductor Case Type | $\theta$ °C/W | Part Number |               |                |
|-------------------------|---------------|-------------|---------------|----------------|
|                         |               | Unplated    | Comm'l. Black | Military Black |
| TO-126/127/220          | 20.0          | PB1-36U     | PB1-36CB      | PB1-36B        |
| TO-126/127/220          | 25.9          | PSB2-1U     | PSB2-1CB      | PSB2-1B        |
| TO-202                  | 17.6          | PSD1-1U     | PSD1-1CB      | PSD1-1B        |
| TO-126/127/220          | 14.4          | PSD1-2U     | PSD1-2CB      | PSD1-2B        |





### PSE1 Series

| Semiconductor Case Type | $\theta$ °C/W | Part Number |               |                |
|-------------------------|---------------|-------------|---------------|----------------|
|                         |               | Unplated    | Comm'l. Black | Military Black |
| Mota. 152               | 17.1          | PSE1-1U     | PSE1-1CB      | PSE1-1B        |
| TO-126/127/220          | 15.0          | PSE1-2U     | PSE1-2CB      | PSE1-2B        |
| TO-202                  | 17.4          | PSE1-3U     | PSE1-3CB      | PSE1-3B        |

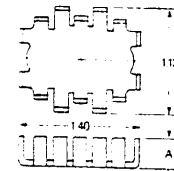


## Board-mounted heat dissipators



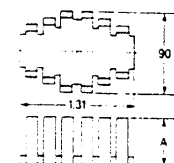
### LB Series

| Semiconductor Case Type | $\theta$ °C/W | Part Number |               |                | "A" Dim. |
|-------------------------|---------------|-------------|---------------|----------------|----------|
|                         |               | Unplated    | Comm'l. Black | Military Black |          |
| TO-126/127/220          | 16.5          | LB66B1U     | LB66B1CB      | LB66B1B        | .50      |
| TO-126/127/220          | 20.8          | LB66B2U     | LB66B2CB      | LB66B2B        | .31      |



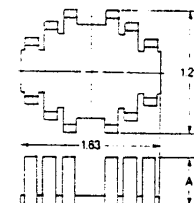
### LA-A Series

| Semiconductor Case Type | $\theta$ °C/W | Part Number |               |                | "A" Dim. |
|-------------------------|---------------|-------------|---------------|----------------|----------|
|                         |               | Unplated    | Comm'l. Black | Military Black |          |
| TO-126/127/220          | 25.0          | LA66A1U     | LA66A1CB      | LA66A1B        | .25      |
| TO-126/127/220          | 20.0          | LA66A2U     | LA66A2CB      | LA66A2B        | .50      |
| TO-126/127/220          | 17.0          | LA66A3U     | LA66A3CB      | LA66A3B        | .75      |
| TO-126/127/220          | 14.7          | LA66A4U     | LA66A4CB      | LA66A4B        | 1.00     |



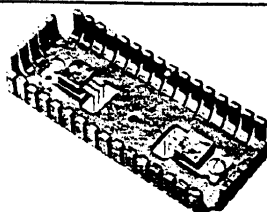
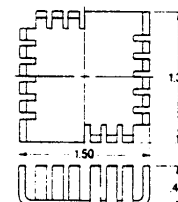
### LA-B Series

| Semiconductor Case Type | $\theta$ °C/W | Part Number |               |                | "A" Dim. |
|-------------------------|---------------|-------------|---------------|----------------|----------|
|                         |               | Unplated    | Comm'l. Black | Military Black |          |
| TO-126                  | 15.0          | LAT0126B2U  | LAT0126B2CB   | LAT0126B2B     | .50      |
| TO-126                  | 12.9          | LAT0126B3U  | LAT0126B3CB   | LAT0126B3B     | .75      |
| TO-126                  | 11.4          | LAT0126B4U  | LAT0126B4CB   | LAT0126B4B     | 1.00     |
| TO-126                  | 9.7           | LAT0126B5U  | LAT0126B5CB   | LAT0126B5B     | 1.25     |
| TO-127/220              | 15.0          | LAT0127B2U  | LAT0127B2CB   | LAT0127B2B     | .50      |
| TO-127/220              | 12.9          | LAT0127B3U  | LAT0127B3CB   | LAT0127B3B     | .75      |
| TO-127/220              | 11.4          | LAT0127B4U  | LAT0127B4CB   | LAT0127B4B     | 1.00     |
| TO-127/220              | 9.7           | LAT0127B5U  | LAT0127B5CB   | LAT0127B5B     | 1.25     |
| Universal Hole Pattern  | —             | LA394B2U    | LA394B2CB     | LA394B2B       | .50      |
|                         | —             | LA394B3U    | LA394B3CB     | LA394B3B       | .75      |
|                         | —             | LA394B4U    | LA394B4CB     | LA394B4B       | 1.00     |
|                         | —             | LA394B5U    | LA394B5CB     | LA394B5B       | 1.25     |



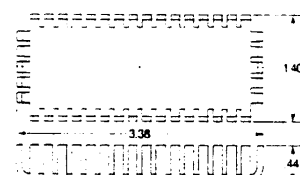
### UP3 Series

| Semiconductor Case Type | $\theta$ °C/W | Part Number |               |                |
|-------------------------|---------------|-------------|---------------|----------------|
|                         |               | Unplated    | Comm'l. Black | Military Black |
| TO-126                  | 15.0          | UP3-T0126-U | UP3-T0126-CB  | UP3-T0126-B    |
| TO-127/220              | 15.0          | UP3-T0127-U | UP3-T0127-CB  | UP3-T0127-B    |
| Universal               | —             | UP3-425-U   | UP3-425-CB    | UP3-425-B      |
| 2 Ea. TO-126/127/220    | 13.6          | UP3-456-U   | UP3-456-CB    | UP3-456-B      |



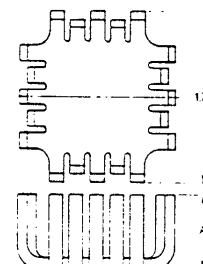
### UP10 Series

| Semiconductor Case Type | $\theta$ °C/W | Part Number  |               |                |
|-------------------------|---------------|--------------|---------------|----------------|
|                         |               | Unplated     | Comm'l. Black | Military Black |
| 2 Ea. TO-126/127/220    | 7.5           | UP10-T0127-U | UP10-T0127-CB | UP10-T0127-B   |
| Universal               | N.A.          | UP10-426-2U  | UP10-426-2CB  | UP10-426-2B    |



### UP, UP1, UP2 Series

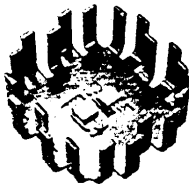
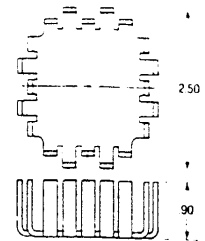
| Semiconductor Case Type | $\theta$ °C/W | Part Number  |               |                | "A" Dim. |
|-------------------------|---------------|--------------|---------------|----------------|----------|
|                         |               | Unplated     | Comm'l. Black | Military Black |          |
| TO-126                  | 11.7          | UP1-T0126-U  | UP1-T0126-CB  | UP1-T0126-B    | .50      |
| TO-126                  | 9.4           | UP2-T0126-U  | UP2-T0126-CB  | UP2-T0126-B    | .75      |
| TO-126                  | 8.2           | UP-T0126-U   | UP-T0126-CB   | UP-T0126-B     | 1.00     |
| TO-127/220              | 11.7          | UP1-T0127-U  | UP1-T0127-CB  | UP1-T0127-B    | .50      |
| TO-127/220              | 9.4           | UP2-T0127-U  | UP2-T0127-CB  | UP2-T0127-B    | .75      |
| TO-127/220              | 8.2           | UP-T0127-U   | UP-T0127-CB   | UP-T0127-B     | 1.00     |
| 2 Ea. TO-126 or         | 10.7          | UP1-T0127-2U | UP1-T0127-2CB | UP1-T0127-2B   | .50      |
| 2 Ea. TO-127 or         | 8.3           | UP2-T0127-2U | UP2-T0127-2CB | UP2-T0127-2B   | .75      |
| 2 Ea. TO-220            | 7.4           | UP-T0127-2U  | UP-T0127-2CB  | UP-T0127-2B    | 1.00     |





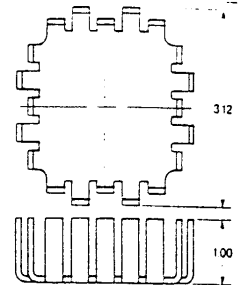
### HP1 Series

| Semiconductor Case Type | $\theta$ °C/W | Part Number  |               |                |
|-------------------------|---------------|--------------|---------------|----------------|
|                         |               | Unplated     | Comm'l. Black | Military Black |
| TO-126                  | 6.5           | HP1-TO126-U  | HP1-TO126-CB  | HP1-TO126-B    |
| TO-127/220              | 6.5           | HP1-TO127-U  | HP1-TO127-CB  | HP1-TO127-B    |
| Dual TO-127/220         | 5.6           | HP1-TO127-4U | HP1-TO127-4CB | HP1-TO127-4B   |

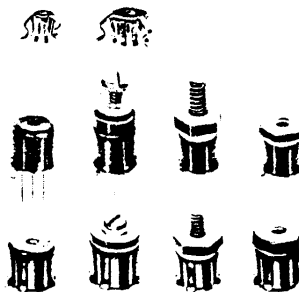


### HP3 Series

| Semiconductor Case Type | $\theta$ °C/W | Part Number  |               |                |
|-------------------------|---------------|--------------|---------------|----------------|
|                         |               | Unplated     | Comm'l. Black | Military Black |
| TO-126                  | 5.0           | HP3-TO126-U  | HP3-TO126-CB  | HP3-TO126-B    |
| TO-127/220              | 5.0           | HP3-TO127-U  | HP3-TO127-CB  | HP3-TO127-B    |
| 2 Ea. TO-127/220        | 4.0           | HP3-TO127-4U | HP3-TO127-4CB | HP3-TO127-4B   |
| 4 Ea. TO-127/220        | 3.7           | HP3-319-U    | HP3-319-CB    | HP3-319-B      |

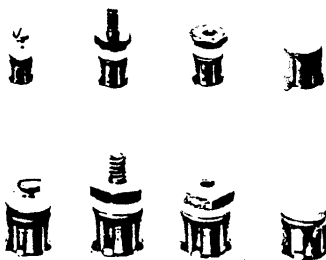


## Heat dissipators for metal case, case-mounted semiconductors



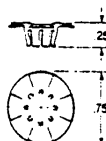
### Thermal Link Retainers Without BeO Insulators

| Semiconductor Case Type | Part Number with Black Cadmium Finish | Part Number with Dull Nickel Finish | Part Number with Insulube Finish | Mounting Method | "A" Dim. | "B" Dim. |
|-------------------------|---------------------------------------|-------------------------------------|----------------------------------|-----------------|----------|----------|
| TO-18                   | TXBC-019-023B                         | TXBC-019-023ND                      | TXBC-019-023                     | Spring Clip     | .23      | .43      |
| TO-5                    | TXBC-032-025B                         | TXBC-032-025ND                      | TXBC-032-025                     | Spring Clip     | .25      | .56      |
| TO-18                   | TXBE-019-021B                         | TXBE-019-021ND                      | TXBE-019-021                     | Rivet/Solder    | .21      | .22      |
| TO-5                    | TXBE-032-031B                         | TXBE-032-031ND                      | TXBE-032-031                     | Rivet/Solder    | .31      | .37      |
| TO-18                   | TXB2P-019-028B                        | TXB2P-019-028ND                     | TXB2P-019-028                    | 2-56 Screw      | .28      | .22      |
| TO-5                    | TXB2P-032-037B                        | TXB2P-032-037ND                     | TXB2P-032-037                    | 4-40 Screw      | .37      | .37      |
| TO-18                   | TX1807B                               | TX1807ND                            | TX1807                           | 4-40 Stud       | .50      | .25      |
| TO-18                   | TX1807-1B                             | TX1807-1ND                          | TX1807-1                         | 6-32 Stud       | .50      | .25      |
| TO-5                    | TX0507-1B                             | TX0507-1ND                          | TX0507-1                         | 6-32 Stud       | .59      | .37      |
| TO-5                    | TX0507-2B                             | TX0507-2ND                          | TX0507-2                         | 10-32 Stud      | .59      | .37      |
| TO-18                   | TX1847B                               | TX1847ND                            | TX1847                           | 2-56 Hex Nut    | .28      | .25      |
| TO-5                    | TX0547B                               | TX0547ND                            | TX0547                           | 4-40 Hex Nut    | .41      | .37      |



### Thermal Link Retainers With BeO Insulators

| Semiconductor Case Type | Part Number with Black Cadmium Finish | Part Number with Dull Nickel Finish | Part Number with Insulube Finish | Mounting Method | "A" Dim. | "B" Dim. |
|-------------------------|---------------------------------------|-------------------------------------|----------------------------------|-----------------|----------|----------|
| TO-18                   | TXP1803B                              | TXP1803ND                           | TXP1803                          | 2-56 Screw      | .34      | .22      |
| TO-18                   | TXP1808B                              | TXP1808ND                           | TXP1808                          | 2-56 Screw      | .34      | .22      |
| TO-5                    | TXP0503B                              | TXP0503ND                           | TXP0503                          | 4-40 Screw      | .43      | .38      |
| TO-5                    | TXP0508B                              | TXP0508ND                           | TXP0508                          | 4-40 Screw      | .43      | .38      |
| TO-18                   | —                                     | TX1805-ND                           | —                                | Solder          | .27      | .22      |
| TO-5                    | —                                     | TX0505-ND                           | —                                | Solder          | .37      | .30      |
| TO-18                   | TX1806B                               | TX1806ND                            | —                                | 4-40 Stud       | .56      | .25      |
| TO-18                   | TX1806-1B                             | TX1806-1ND                          | —                                | 6-32 Stud       | .56      | .25      |
| TO-5                    | TX0506-1B                             | TX0506-1ND                          | —                                | 6-32 Stud       | .65      | .38      |
| TO-5                    | TX0506-2B                             | TX0506-2ND                          | —                                | 10-32 Stud      | .65      | .38      |
| TO-18                   | TX1822B                               | TX1822ND                            | —                                | 2-56 Hex Nut    | .34      | .25      |
| TO-5                    | TX0522B                               | TX0522ND                            | —                                | 4-40 Hex Nut    | .47      | .38      |

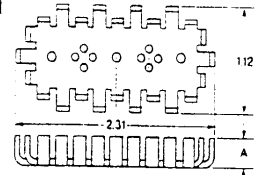
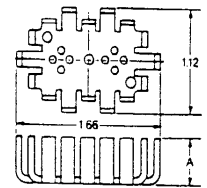
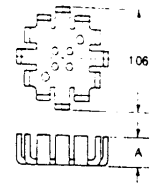


### Fan Tops

| Semiconductor Case Type | $\theta$ °C/W | Part Number    |                |                | Material                 | "A" Dim. | "B" Dim. |
|-------------------------|---------------|----------------|----------------|----------------|--------------------------|----------|----------|
|                         |               | Unplated       | Black Cadmium  | Black Chem.    |                          |          |          |
| TO-18                   | 150.0         | TXBF-019-025U  | TXBF-019-025B  | N.A.           | Be Cu                    | .25      | .50      |
| TO-18                   | 150.0         | TXCF-019-025U  | N.A.           | TXCF-019-025CB | Brass                    | .25      | .50      |
| TO-5                    | 81.1          | TXBF-032-025U  | TXBF-032-025B  | N.A.           | Be Cu                    | .25      | .75      |
| TO-5                    | 81.1          | TXCF-032-025U  | N.A.           | TXCF-032-025CB | Brass                    | .25      | .75      |
| TO-5                    | 57.7          | TXBF2-032-036U | TXBF2-032-036B | N.A.           | Brass Fan Be Cu Retainer | .33      | 1.25     |

## LP Series

| Semiconductor Case Type | $\theta$ °C/W | Part Number |              |                |               | "A" Dim. |
|-------------------------|---------------|-------------|--------------|----------------|---------------|----------|
|                         |               | Unplated    | Comm'l Black | Military Black | Insulube 448* |          |
| One TO-18               | 33.0          | LP18A1U     | LP18A1WCB    | LP18A1B        | LP18A1        | .50      |
| One TO-18               | 38.9          | LP18A2U     | LP18A2WCB    | LP18A2B        | LP18A2        | .31      |
| Two TO-18s              | 27.0          | LP18A3U     | LP18A3WCB    | LP18A3B        | LP18A3        | .50      |
| Two TO-18s              | 32.0          | LP18A4U     | LP18A4WCB    | LP18A4B        | LP18A4        | .31      |
| One TO-5                | 23.1          | LP5A1U      | LP5A1WCB     | LP5A1B         | LP5A1         | .50      |
| One TO-5                | 24.2          | LP5A2U      | LP5A2WCB     | LP5A2B         | LP5A2         | .31      |
| One TO-5                | 16.3          | LP5B1U      | LP5B1WCB     | LP5B1B         | LP5B1         | .50      |
| One TO-5                | 19.7          | LP5B2U      | LP5B2WCB     | LP5B2B         | LP5B2         | .31      |
| Two TO-5s               | 15.6          | LP5B3U      | LP5B3WCB     | LP5B3B         | LP5B3         | .50      |
| Two TO-5s               | 20.8          | LP5B4U      | LP5B4WCB     | LP5B4B         | LP5B4         | .31      |
| One TO-5                | 12.6          | LP5C1U      | LP5C1WCB     | LP5C1B         | LP5C1         | .50      |
| One TO-5                | 15.6          | LP5C2U      | LP5C2WCB     | LP5C2B         | LP5C2         | .31      |
| Two TO-5s               | 12.1          | LP5C3U      | LP5C3WCB     | LP5C3B         | LP5C3         | .50      |
| Two TO-5s               | 15.0          | LP5C4U      | LP5C4WCB     | LP5C4B         | LP5C4         | .31      |

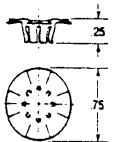


## Heat dissipators for plastic case, case-mounted semiconductors



## Fan Tops

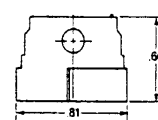
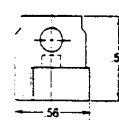
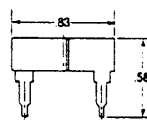
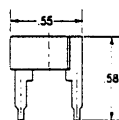
| Semiconductor Case Type | $\theta$ °C/W | Part Number   |                |               | Material | "A" Dim. | "B" Dim. |
|-------------------------|---------------|---------------|----------------|---------------|----------|----------|----------|
|                         |               | Unplated      | Black Coating  | Black Cadmium |          |          |          |
| R110 or R97a            | 150           | TXCF-019-025U | TXCF-019-025CB | TXCF-019-025B | Brass    | .25      | .50      |
| R110a or R97            | —             | TXCF-032-025U | TXCF-032-025CB | TXCF-032-025B | Brass    | .25      | .75      |
| TO-92                   | 153           | TXC20U        | TXC20CB        | TXC20B        | Brass    | .25      | .50      |
| R110 or 97a             | 150           | TXBF-019-025U | TXBF-019-025CB | TXBF-019-025B | Be Cu    | .25      | .50      |
| R110a or R97            | —             | TXBF-032-025U | TXBF-032-025CB | TXBF-032-025B | Be Cu    | .25      | .75      |
| TO-92                   | 153           | TX20U         | TX20CB         | TX20B         | Be Cu    | .25      | .50      |



## Universal "D" Series and Freestanding "D" Series

|                  | Semiconductor Case Type | $\theta$ °C/W | Part Number |               |               | Material |
|------------------|-------------------------|---------------|-------------|---------------|---------------|----------|
|                  |                         |               | Unplated    | Black Coating | Black Cadmium |          |
| Universal "D"    | One TO-92               | 146.8         | RU671U      | RU671CB       | RU671B        | Be Cu    |
|                  | Two TO-92s              | 87.2          | RU672U      | RU672CB       | RU672B        | Be Cu    |
| Freestanding "D" | One TO-92               | 140.4         | RUR671U     | RUR671CB      | RUR671B       | Be Cu    |
|                  | Two TO-92s              | 74.3          | RUR672U     | RUR672CB      | RUR672B       | Be Cu    |

Note: Dissipators listed above are made from Beryllium Copper; they are also available in Brass, contact IERC for Part Numbers.

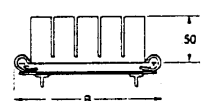
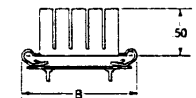


## Heat dissipators for DIPs



## PEP50AB, PEP50BB

| Semiconductor Case Type  | $\theta$ °C/W | Part Number          |                            | Material | "B" Dim. |
|--------------------------|---------------|----------------------|----------------------------|----------|----------|
|                          |               | Assembly Part Number | Component Part Numbers     |          |          |
| .300 Wide DIP 14-16 Pins | 23.8          | PEP50AB              | Dissipator PED50AB         | Be Cu    | 1.30     |
|                          |               |                      | Conduction Bar PEC1AT/0120 | Copper   |          |
| .300 Wide DIP 14-24 Pins | 20.8          | PEP50BB              | Dissipator PED50BB         | Be Cu    | 1.70     |
|                          |               |                      | Conduction Bar PEC1BT/0160 | Copper   |          |

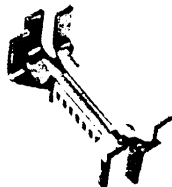
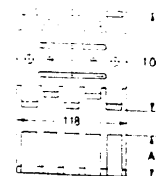




### PB-10 Series

| Semiconductor Case Type           | $\theta$ °C/W. | Part Number |               |                 |               | "A" Dim. |
|-----------------------------------|----------------|-------------|---------------|-----------------|---------------|----------|
|                                   |                | Unplated    | Comm'l. Black | Military Black* | Insulube 448* |          |
| .300 Wide DIPs with up to 16 Pins | 27.8           | PB1-10U     | PB1-10CB      | PB1-10B         | PB1-10        | 50       |
|                                   | 30.3           | PB2-10U     | PB2-10CB      | PB2-10B         | PB2-10        | 37       |

Note: Retainer, DC000080-2 required and must be ordered separately.

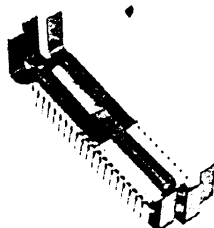
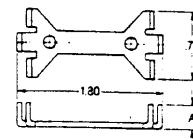


### LIC Series

| Semiconductor Case Type            | $\theta$ °C/W. | Part Number   |                 |               | "A" Dim. |
|------------------------------------|----------------|---------------|-----------------|---------------|----------|
|                                    |                | Comm'l. Black | Military Black* | Insulube 448* |          |
| .300 Wide DIPs less than .700 long | 28.9           | LIC214A1WCB   | LIC214A1B       | LIC214A1      | 25       |
|                                    | 26.3           | LIC214A2WCB   | LIC214A2B       | LIC214A2      | 50       |
|                                    | 23.7           | LIC214A3WCB   | LIC214A3B       | LIC214A3      | 75       |
|                                    | 22.2           | LIC214A4WCB   | LIC214A4B       | LIC214A4      | 1.00     |

\*Dissipator edges adjacent to the DIP pins are coated with an insulating compound.

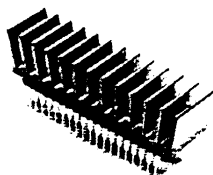
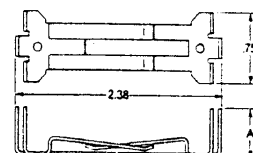
Note: DC000080-2 retainer is required and must be ordered separately.



### Micro Clip Dissipators

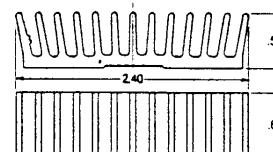
| Semiconductor Case Type        | $\theta$ °C/W. | Part Number |               |                |               | "A" Dim. |
|--------------------------------|----------------|-------------|---------------|----------------|---------------|----------|
|                                |                | Unplated    | Comm'l. Black | Military Black | Insulube 448* |          |
| .600 Wide DIPs with 24-40 Pins | 25.9           | APIC025U    | APIC025CB     | APIC025B       | APIC025       | 25       |
|                                | 22.9           | APIC050U    | APIC050CB     | APIC050B       | APIC050       | 50       |
|                                | 22.7           | APIC075U    | APIC075CB     | APIC075B       | APIC075       | 75       |

Note: APIC Dissipators are a two-piece assembly.



### Extruded Dissipator for 40 Pin DIPs

| Semiconductor Case Type | $\theta$ °C/W. | Part Number |               |                |
|-------------------------|----------------|-------------|---------------|----------------|
|                         |                | Unplated    | Comm'l. Black | Military Black |
| .600 Wide 40 Pin DIPs   | 15.5           | E155-001U   | E155-001CB    | E155-001B      |



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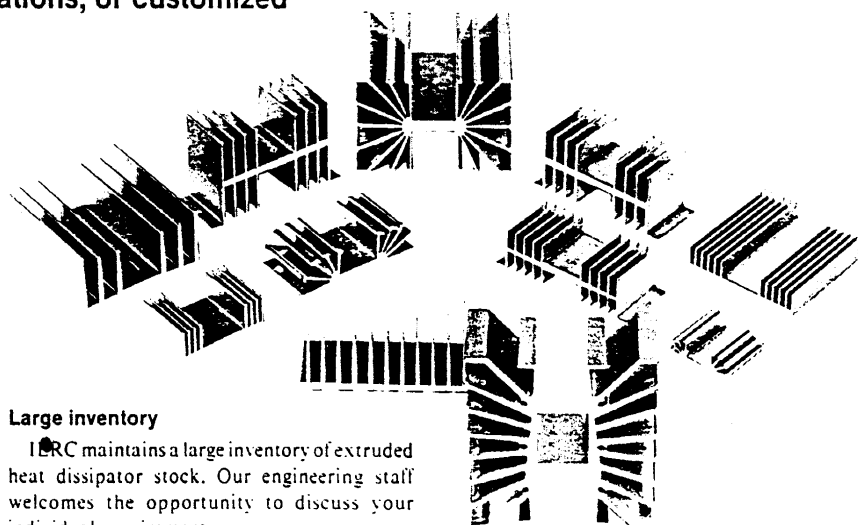
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To provide special assistance in meeting your thermal packaging requirement, IERC will:

- Cut to length
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In addition to the highly accurate data available on the characteristics of each dissipator, there is an excellent discussion on the "Principles of Thermal Management" and tips on heat sink/dissipator applications.

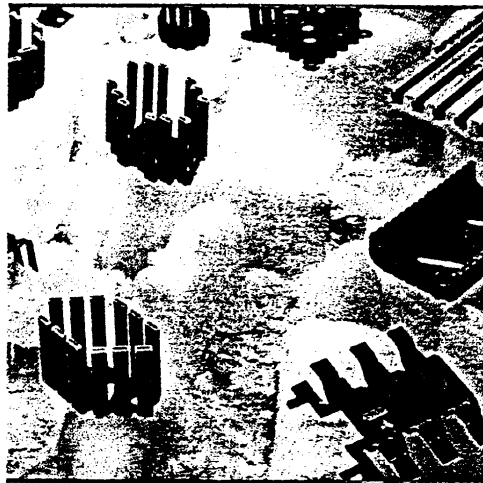
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