MR1265FL, MR1269FL (SILICON)



Silicon power rectifiers designed with double-case, multi-cell construction for extreme reliability and ruggedness. Standard cathode-to-case polarity, but available with reverse polarity by adding suffix "R" to type number.

MAXIMUM RATINGS

Rating	Symbol	MR1265	MR1269	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V RRM V RWM V _R	300	600	Volts
Non-Repetitive Peak Reverse Voltage (one half-wave, single phase, 60 cycle peak)	V _{RSM}	400	720	Volts
RMS Reverse Voltage	V _{R(RMS)}	210	420	Volts
Average Rectified Forward Current (single phase, resistive load, 60 Hz, T _C = 150°C)	I _O	650		Amperes
Non-Repetitive Peak Surge Currents (superimposed on rated cur- rent at rated voltage, T _C = 150°C)	I _{FSM}	12,000 (for 1/2 cycle) 8,000 (for six consecutive 1/2 cycles)		Amperes
I ² t Rating (non-repetitive, for t greater than 1 ms and less than 8.3 ms)	1 ² t	300,000		A 28
Operating and Storage Junction Temperature Range	T _J , T _{stg}	-65 to +190		°C

THERMAL CHARACTERISTICS

Characteristic	Symbol	Max	Unit
Thermal Resistance, Junction to Case	R _{\theta} JC	0.045	°C/Watt

ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	M ax 0. 4	Unit Volts
Full Cycle Average Forward Voltage Drop (rated I _O and V _{R(RMS)} , single phase, 60 Hz, T _C = 150°C)	V _{F(AV)}		
Full Cycle Average Reverse Current (rated I _O and V _{R(RMS)} , single phase, 60 Hz, T _C = 150°C)	I _{R(AV)}	100	mA

MR1265FL, MR1269FL (continued)

