

Maximum Ratings and Electrical Characteristics

Rating at 25 $^\circ\!\mathrm{C}$ ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%
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Type Number	Symbol	1W 005M	1W 01M	1W 02M	1W 04M	1W 06M	1W 08M	1W 10M	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current $@T_A = 50^{\circ}C$	I _(AV)	1.0							А
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	30							А
Maximum Instantaneous Forward Voltage @ 1.0A	VF	1.0							V
Maximum DC Reverse Current @ $T_A=25^{\circ}C$ at Rated DC Blocking Voltage @ $T_A=100^{\circ}C$	I _R	10 500							uA uA
Typical Thermal Resistance (Note)	R <i>θ</i> JA R <i>θ</i> JL	36 13							C /W
Operating Temperature Range	TJ	-55 to +125							C
Storage Temperature Range	T _{STG}	-55 to +150							C

Note: Thermal Resistance from Junction to Ambient and from Junction to Lead Mounted on P.C.B. with 0.2 x 0.2" (5 x 5mm) Copper Pads.



