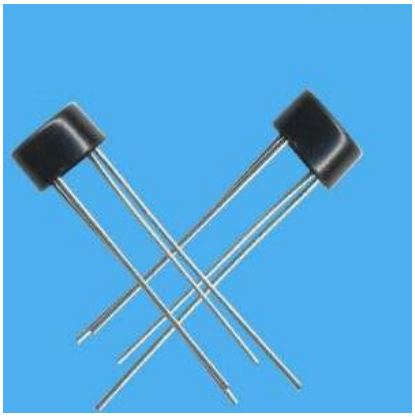
SM Technology Co., Limited

Bridge Rectifier 2W005 2W01 2W02 2W04 2W06 2W08 2W10



Specifications

2A Bridge Rectifier **2W005 2W01 2W02 2W04 2W06 2W08 2W10**

Rating to 1000V PRV

Surge overload rating to 50 Amperes peak

Ideal for printed circuit board

Reliable low cost construction utilizing molded plastic technique results in inexpensive product

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%

Type Number	Symbol	2W 005	2W 01	2W 02	2W 04	2W 06	2W 08	2W 10	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°C	$I_{(AV)}$	2.0							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	50							A
Maximum Instantaneous Forward Voltage @ 2.0A	V_F	1.1							V
Maximum DC Reverse Current @ T_A=25°C at Rated DC Blocking Voltage @ T_A=125°C	I_R	10 500							uA uA
Typical Thermal resistance (Note)	$R_{\theta JA}$ $R_{\theta JL}$	40 15							°C/W
Operating Temperature Range	T_J	-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 at 0.375" (9.5mm) Lead Length for P.C.B. Mounting.