

2W005M thru 2W10M

2.0 A Single-Phase Silicon Bridge Rectifier

Rectifier Reverse Voltage 50 to 1000V



Features

- This series is UL listed under the Recognized Component Index, file number E142814
- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- Ideal for printed circuit board mounting
- High surge current capability
- High temperature soldering guaranteed 265 C /10 seconds at 5 lbs (2.3kg) tension

Mechanical Data

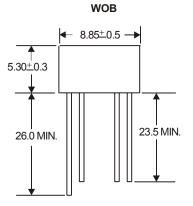
Case: Reliable low cost construction utilizing

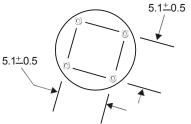
molded plastic technique

Terminals: Plated leads solderable per MIL-STD-202,

Method 208 Mounting Position: Any

Weight: 0.05 ounce, 1.3 grams (approx)





Dimensions in millimeters(1mm =0.0394")

Maximum Ratings & Thermal Characteristics

Rating at 25 °C ambient temperature unless otherwise specified, Resistive or Inductive load, 60 Hz. For Capacitive load derate current by 20%.

Tor Capacitive load derate current by 2070.	1									
arameter	Symbol	2W005M	2W01M	2W02M	2W04M	2W06M	2W08M	2W10M	unit	
laximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	V	
laximum RMS bridge input voltage	VRMS	35	70	140	280	420	560	700	V	
laximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V	
flaximum average forward rectified utput current at TA=25 C	IF(AV)	2.0						Α		
Peak forward surge current single sine-wave uperimposed on rated load (JEDEC Method)	IFSM	60						А		
cating for fusing (t<8.3ms)	I²t	15							A ² se	C
ypical thermal resistance per element (1)	RthJA	50.0							Ĉ/	١
ypical junction capacitance per element (2)	Cj	30							pF	
)perating junction and storage temperature ange	TJ, TSTG	-55 to + 150						c		

Electrical Characteristics

Rating at 25 $^{\circ}$ C ambient temperature unless otherwise specified. Resistive or Inductive load, 60Hz. For Capacitive load derate by 20 $^{\circ}$ K.

arameter	Symbol	2W005M	2W01M	2W02M	2W04M	2W06M	2W08M	2W10M	Uni	t
laximum instantaneous forward voltage drop er leg at 2.0A	VF	1.1							V	
faximum DC reverse current at rated TA = 25 C ° C blocking voltage per element TA = 100 C	IR	10 1000							A	

Notes: (1)Thermal resistance from Junction to Ambemt on P.C.board mounting. (2)Measured at 2.0MHz and applied reverse voltage of 4.0 volts.



Rating and Characteristic Curves (TÅ=25 C Unless otherwise noted) 2W005M thru 2W10M

Fig. 1 Derating Curve for Output Rectified Current

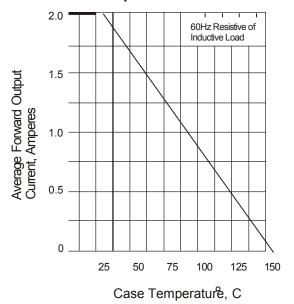


Fig. 3 Typical Instantaneous Forward Characteristics

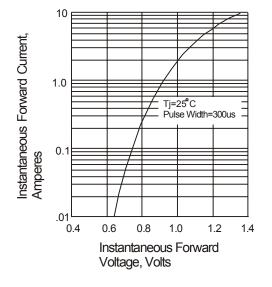


Fig. 2 Maximum Non-repetitive Peak Forward Surge Current

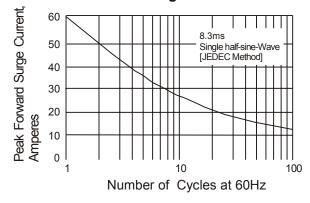


Fig. 4 Typical Reverse Characteristics

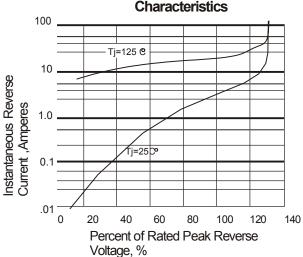


Fig. 5 Typical Junction Capacitance

