

2W005 THRU 2W10

SINGLE PHASE SILICON BRIDGE RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current - 2.0 Ampere

FEATURES

- Ideal for printed circuit board
- Surge overload rating: 50A peak
- High case dielectric strength

MECHANICAL DATA

- Case: UL-94 Class V-0 recognized Flame Retardant Epoxy
- Terminals: Plated leads solderable per
 - MIL-STD 202E, method 208C
- Mounting Position: Any
- Weight: 1.10 g
- Marking: Type Number





MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

CHARACTERISTICS		SYMBOL	2W005	2W01	2W02	2W04	2W06	2W08	2W10	UNITS
Maximum Recurrent Peak Reverse Voltage		Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage		VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Output Current at TA = 25°C		lo	2.0							A
Peak Forward Surge Current 8.3 ms single half sine-wave		Isou	50							A
superimposed on rated load (JEDEC Method)		IFSM								
Maximum DC Forward Voltage Drop per Bridge)./-	1.0							v
Element at 2.0A DC		VF								
Maximum Reverse Current at rated	@TA = 25°C	In	10.0							– uA
DC Blocking Voltage per element	@TA = 125°C		500							
I ² t Rating for Fusing (t<8.3ms)		l ² t	10						A ² Sec	
Typical Junction Capacitance (Note1)		CJ	24						pF	
Typical Thermal Resistance (Note 2)		R0JA	36						°C/W	
Operating and Storage Temperature Range		TJ,TSTG	-55 to + 150						° C	

NOTES : 1.Measured at 1 MHz and applied reverse voltage of 4.0 volts

2. Thermal Resistance from Junction to Ambient and from junction to lead mounted on P.C.B. with 0.5 x 0.5" (13x13mm) copper pads.



2W005 THRU 2W10 **RATINGS AND CHARACTERISTIC CURVES**



0.01

0

40

80

PERCENT OF RATED PEAK REVERSE VOLTAGE (%) Fig. 5 Typical Reverse Characteristics

120

160