

MD1S THRU MD7S

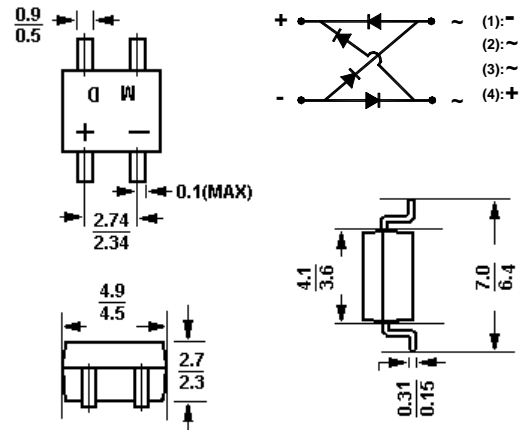
Miniature Glass Passivated Single Phase Surface Mount Bridge Rectifier
Reverse Voltage – 50 to 1000 Volts
Forward Current – 0.5 Ampere

Features

- Surge overload rating: 30 amperes peak
- Ideal for printed circuit board
- Low leakage
- Reliable low cost construction utilizing molded
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O

Mechanical Data

- **Case:** MD-S, molded plastic.
- **Terminals:** Leads solderable per MIL-STD-202, method 208.
- **Mounting position:** Any.
- **Weight:** 0.008 ounce, 0.22 grams.



Dimensions in mm

Absolute Maximum Ratings and Characteristics

Ratings 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%.

	Symbols	MD1S	MD2S	MD3S	MD4S	MD5S	MD6S	MD7S	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 See Fig .1 On glass epoxy P.C.B ²⁾ On aluminum substrate ³⁾	$I_{(AV)}$	0.5 0.8							A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	30							A
Maximum forward voltage at 0.4A DC	V_F	1.0							V
Maximum reverse current @ $T_A = 25^\circ C$ at rated DC blocking voltage @ $T_A = 125^\circ C$	I_R	5.0 500							μA
Typical junction capacitance ¹⁾	C_J	15							pF
Typical thermal resistance ³⁾	$R_{\theta JA}$	76							°C/W
Typical thermal resistance ²⁾	$R_{\theta JL}$	20							°C/W
Operating and storage temperature range	T_J, T_{Stg}	-55 to +150							°C

¹⁾ Measured at 1 MHz and applied $V_r = 4$ volts.

²⁾ On glass epoxy P.C.B. mounted on 0.05 x 0.05" (1.3 x 1.3 mm) pads.

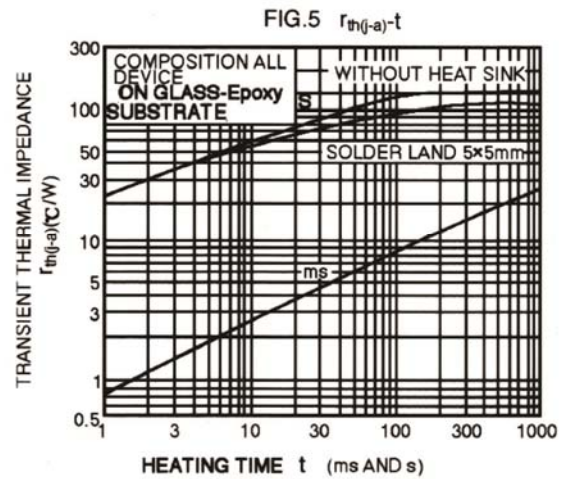
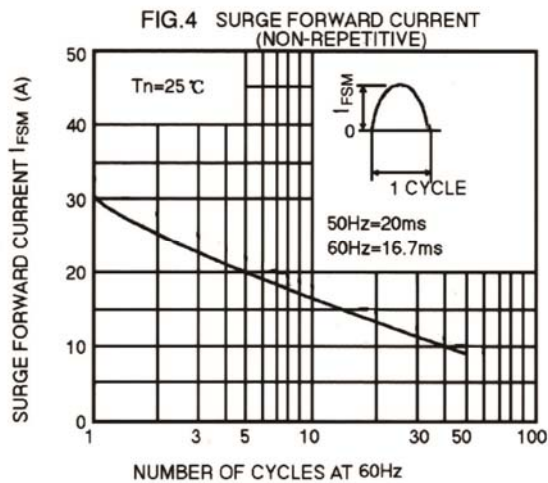
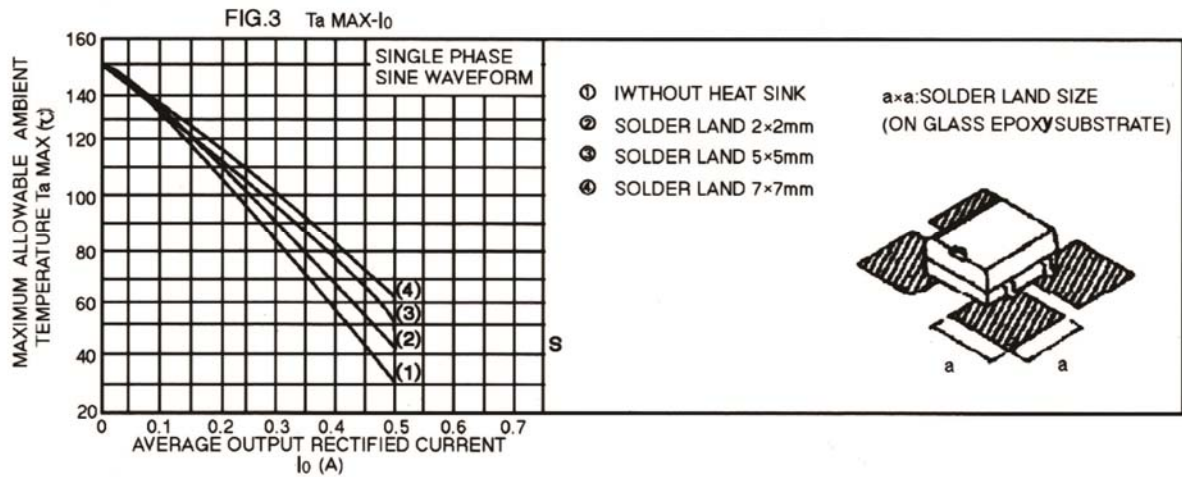
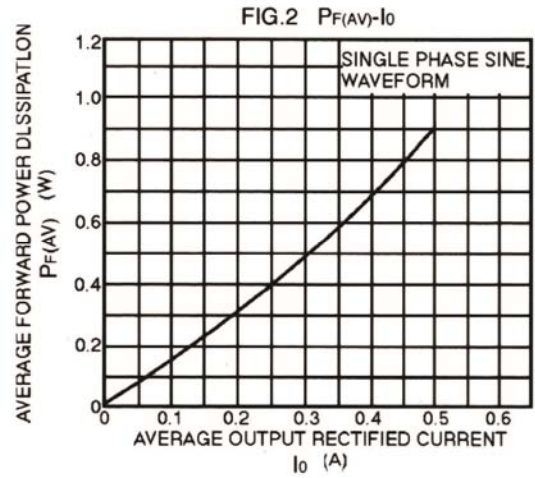
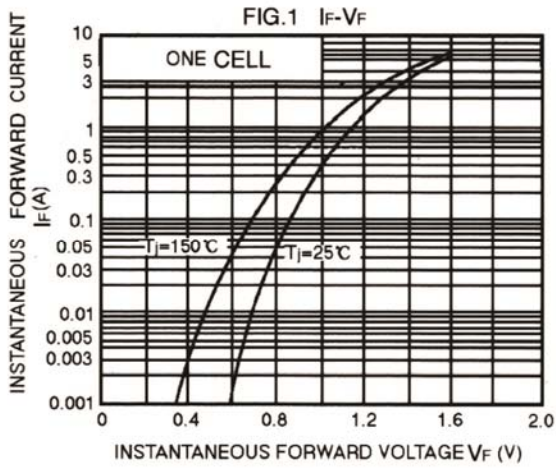
³⁾ On aluminum substrate P.C.B. with an area of 0.8 x 0.8" (20 x 20mm) mounted on 0.05 x 0.05" (1.3 x 1.3mm) solder pad.

TOP DYNAMIC



ISO14001 : 2004 Certificate No. 121505007
 ISO 9001 : 2008 Certificate No. 50114012
 OHSAS 18001 : 2007 Certificate No. 05151500008
 IECQ QC 080000 Certificate No. ECUH00074422
 Dated : 21/04/2016 JG Rev:01

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