MD005 THRU MD10

SINGLE PHASE GLASS PASSIVATED SURFACE MOUNT BRIDGE RECTIFIER

VOLTAGE:50 TO 1000V CURRENT:0.8A



FEATURE

For surface mount application Reliable low cost construction utilizing molded plastic Technique Surge overload rating:30 A peak

MECHANICAL DATA

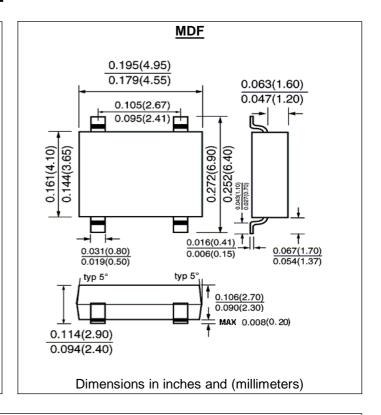
Terminal: Plated leads solderable per

MIL-STD 202E, method 208C

Case: UL-94 Class V-0 recognized Flame Retardant Epoxy

Polarity: Polarity symbol marked on body

Mounting position: any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated, for capacitive load, derate current by 20%)

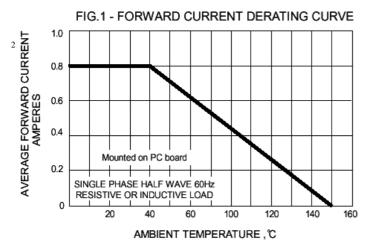
			MD	MD	MD	MD	MD	MD	MD					
		SYMBOL	005	01	02	04	06	08	10	Units				
Maximum Recurrent Peak Reverse Voltage		Vrrm	50	100	200	400	600	800	1000	V				
Maximum RMS Voltage		Vrms	35	70	140	280	420	560	700	V				
Maximum DC blocking Voltage		VDC	50	100	200	400	600	800	1000	V				
Maximum Average Forward Rectified Current at Ta =40°C		If(av)	0.8							А				
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load		Ifsm	30.0							А				
Maximum Instantaneous Forward Voltage at forward current 0.4A		Vf	1.0							V				
Maximum DC Reverse Current at rated DC blocking voltage	Ta =25°C Ta =125°C	lr	5.0 500.0			μA uA								
Typical Junction Capacitance (Note1)		Cj	15.0							Pf				
Typical Thermal resistance	(Note2)	Rth(ja)	76							00/14/				
	(Note3)	Rth(jl)	20							°C/W				
Operating Junction Temperature Range		Tj	-55 to +150							°C				
Storage Temperature Range		Tstg	-55 to +150							°C				

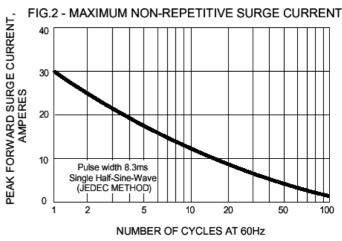
Note:

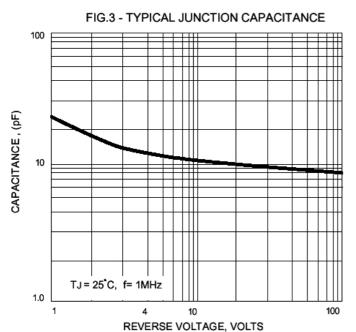
- 1. 1 Measured at 1.0 MHz and applied voltage of 4.0 volt
- 2. On aluminum substrate
- 3. Junction to lead

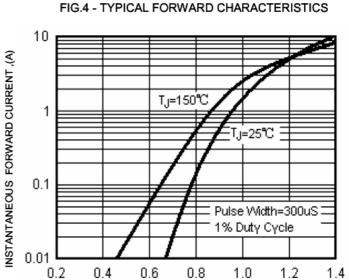
RATINGS AND CHARACTERISTIC CURVES MD005 THRU MD10

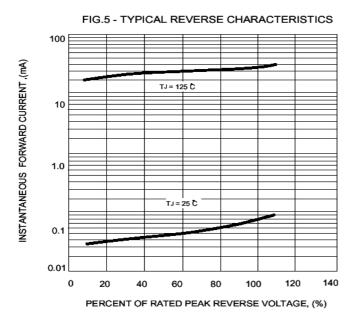
Rev.A7 www.gulfsemi.com











Rev.A7 www.gulfsemi.com