RMD1S THRU RMD7S

MINIATURE GLASS PASSIVATED FAST RECOVERY SINGLE-PHASE SURFACE MOUNT BRIDGE RECTIFIER

REVERSE VOLTAGE: 50 to 1000 VOLTS FORWARD CURRENT: 0.5 AMPERE

FEATURES

· Surge overload rating: 25 amperes peak

· Ideal for printed circuit board

· Plastic material has Underwriters Laboratory Flammability Classification 94V-0

· Fast recovery, low switching loss

· Reliable low cost construction utilizing molded

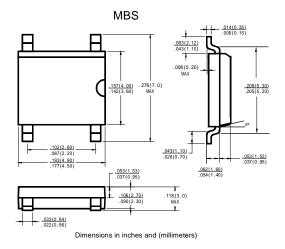
MECHANICAL DATA

Case: Molded plastic, MD-S

Epoxy: UL 94V-O rate flame retardant

Terminals: Leads solderable per MIL-STD-202,

method 208 guaranteed Mounting position: Any Weight: 0.008ounce, 0.22gram



Maximum Ratings and Electrical Characteristics

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

	Symbols	RMD1S	RMD2S	RMD3S	RMD4S	RMD5S	RMD6S	RMD7S	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current	I _(AV) 0.5 0.8								
(see Fig. 1) on glass-epoxy P.C.B (Note 2)									Amp
on aluminum substrate (Note 3)									
Peak Forward Surge Current,									
8.3ms single half-sine-wave	I_{FSM} 25							Amp	
superimposed on rated load (JEDEC method)									
Maximum Forward Voltage	$V_{\rm F}$	1.3							Volts
at 0.4A DC and 25℃	V F								
Maximum Reverse Current at T _A =25℃	I_R	5.0							uAmp
at Rated DC Blocking Voltage T _A =125℃	1 _R	500							
Typical Junction Capacitance (Note 1)	C_{J}	13							pF
Maximum Reverse Recovery Time (Note 4)	T_{RR}		1:	50		250	50	00	nS
Typical Thermal Resistance (Note 3)	$R_{\theta JA}$	70						°C/W	
Typical Thermal Resistance (Note 2)	$R_{\theta JL}$	20						°C/W	
Operating and Storage Temperature Range	T _J , Tstg	-55 to +150							ဗ

NOTES:

- 1- Measured at 1 $\ensuremath{\text{MH}_{\text{Z}}}$ and applied reverse voltage of 4.0 VDC.
- 2- On glass epoxy P.C.B. mounted on 0.05 x 0.05" (1.3 x 1.3mm) pads
- 3- On aluminum substrate P.C.B. with an area of $0.8" \times 0.8"$ ($20 \times 20mm$) mounted on $0.05 \times 0.05"$ ($1.3 \times 1.3mm$) solder pad
- 4- Reverse Recovery Test Conditions: I_F =.5A, I_R =1A, I_{RR} =.25A.

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RATINGS AND CHARACTERISTIC CURVES

