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

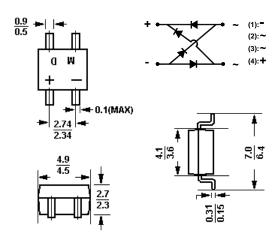
Mechanical Data

• 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, denate current by 20%

inductive load. For capacitive load, derate current by	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)		I		0.5 0.8				Α
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}				30				Α
Maximum forward voltage at 0.4A DC	V _F				1.0				V
	I _R	5.0 500						μΑ	
Typical junction capacitance 1)	Сл	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 MH_Z and applied $V_r = 4$ volts.











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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.

