

捷多邦,专业PCB打样工

, 24小时加 **FMD** S

THRU FMD7S

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

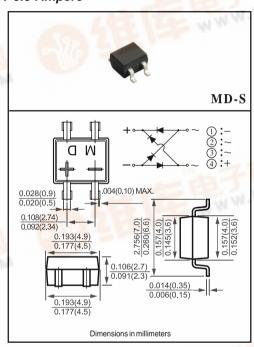
VOLTAGE RANGE 50 to 1000 Volts CURRENT 0.8 Ampere

FEATURES

- * Surge overload rating 30 amperes peak
- * Ideal for printed circuit board
- * Reliable low cost construction utilizing molded
- * Glass passivated device
- * Polarity symbols molded on body
- * Mounting position: Any
- * Weight: 0.5 gram

MAXIMUM RATINGS AND ELECTRICAL 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%.



MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	FMD1S	FMD2S	FMD3S	FMD4S	FMD5S	FMD6S	FMD7S	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Bridge Input Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Output Rectified Current TA = 30°C -on glass-epoxy P.C.B. (NOTE 1) -on aluminum substrate (NOTE 2)	lo	0.5 0.8						Amp	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	30					Amps		
Typical Junction Capacitance (Note3)	Cı	15						pF	
Operating and Storage Temperature Range	TJ,TSTG	-55 to + 150							°C

FLECTRICAL CHARACTERISTICS (AtTA = 25°C unless otherwise noted)

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CHARACTERISTICS		SYMBOL	FMD1S	FMD2S	FMD3S	FMD4S	FMD5S	FMD6S	FMD7S	UNITS
Maximum Forward Voltage Drop per Bridge Element at 0.4A DC		VF	1.30						Volts	
Maximum Reverse Current at rated	@Ta=25°C		10						uAmps	
Blocking Voltage per element	lR	100							uAmps	
Maximum Reverse Recovery Time (Note 4)		trr		15	50		250	50	00	nSec

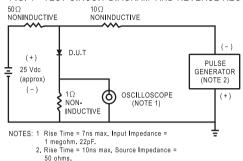
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. On aluminum substrate P.C.B. with an area of 0.8 X 0.8 X 0.25" (20 X 20 X 6.4mm) mounted on 0.05 X 0.05" (1.27 X 1.27mm) solder pad.

1. On glass-epoxy P.C.B. mounted on 0.05 X 0.05" (1.3 X 1.3mm) pads.

RATING AND CHARACTERISTIC CURVES (FMD1S THRU FMD7S)

FIG. 1 - TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC





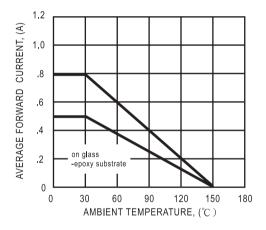
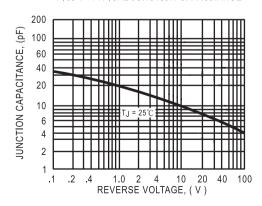


FIG. 4 - TYPICAL JUNCTION CAPACITANCE



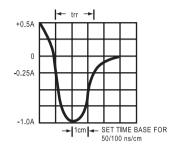


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

