



SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

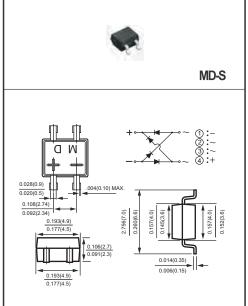
VOLTAGE RANGE 50 to 1000 Volts CURRENT 0.8 Ampere

FEATURES

- * Surge overload rating 35 amperes peak
- * Ideal for printed circuit board
- * Reliable low cost construction utilizing molded
- * Glass passivated device
- * Polarity symbols molded on body
- * P/N suffix V means AEC-Q101 qualified, e.g:MD1SV
- * P/N suffix V means Halogen-free

MECHANICAL DATA

- * Epoxy: Device has UL flammability classification 94V-O
- * UL listed under the recognized component directory, file #E94233.
- * Mounting position: Any
- * Weight: 0.5 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25 °C ambient temperature unless otherwise specified. resistive or inductive load.

Dimensions in inches and (millimeters)

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

RATINGS	SYMBOL	MD1S	MD2S	MD3S	MD4S	MD5S	MD6S	MD7S	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Bridge Input 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 Output Current at T _A = 40°C	I _O	0.8						Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	35					Amps		
Typical Current Squarad Time	12t	5					A ² /Sec		
Turical Thermal Desistance (Nets 2)	R _{θJA}	85							_ ∘c/w
Typical Thermal Resistance (Note 2)	R _{θJL}	20							
Operating and Storage Temperature Range	TJ,TSTG	-55 to + 150						°C	

ELECTRICAL CHARACTERISTICS (At T_A = 25°C unless otherwise noted)

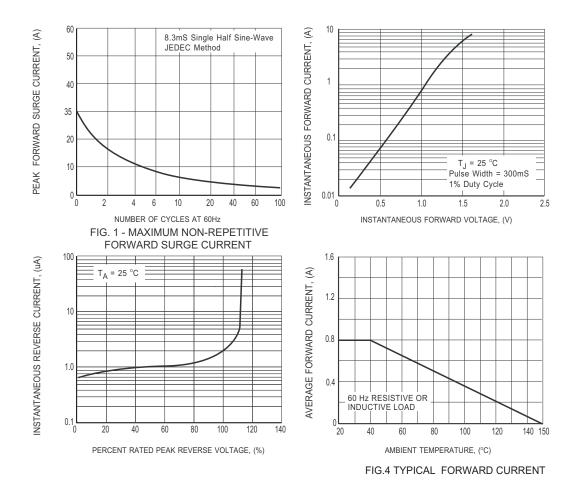
CHARACTERISTICS		SYMBOL	MD1S	MD2S	MD3S	MD4S	MD5S	MD6S	MD7S	UNITS
Maximum Forward Voltage Drop per Bridge Element at 0.4 A DC		V _F	1.0						Volts	
Maximum Reverse Current at Rated $@T_A = 25^{\circ}C$			1.0					_u Amps		
DC Blocking Voltage per element	@T _A = 150°C	IR	200							uAmps

Note: 1."Fully ROHS compliant","100% Sn plating(Pb-free).

2. Thermal Resistance: PCB mounted.

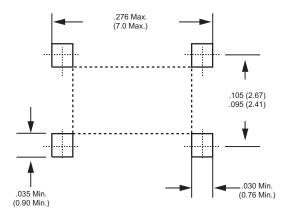
2018-01/ 08 REV:D







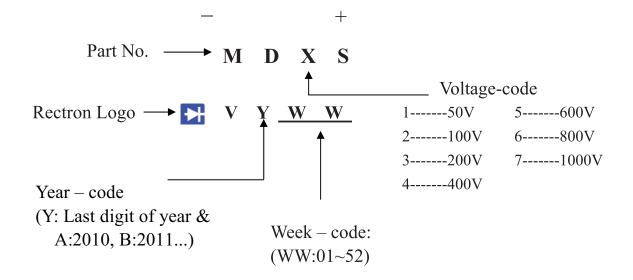
Mounting Pad Layout



Dimensions in inches and (millimeters)



Marking Description





REEL TAPING SPECIFICATIONS FOR SURFACE MOUNT DEVICES - MINI DIP

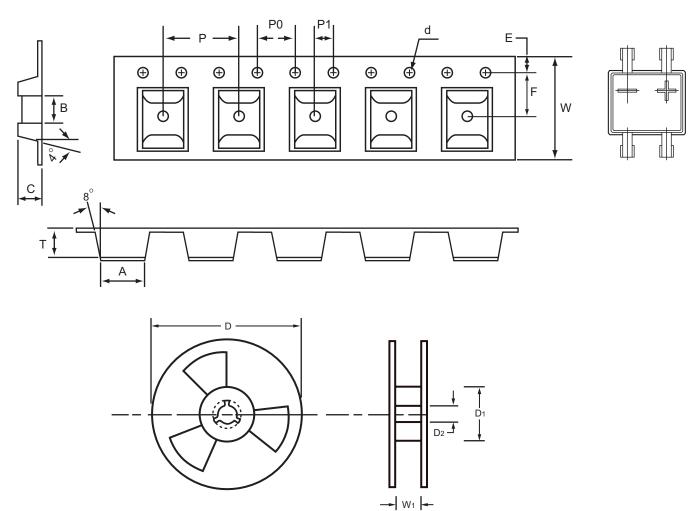


Fig.: Configuration of MINI DIP REEL TAPING

ITEM	SYMBOL	SPECIFICATIONS (mm)	SPECIFICATIONS (inch)
Carrier width	A	5.0±0.1	0.197 ±0.004
Carrier length	В	3.2±0.1	0.126 ± 0.004
Carrier depth	С	2.9 ±0.1	0.114 ± 0.004
Sprocket hole	d	1.5±0.1/-0	0.059 ± 0.004
Reel outside diameter	D	178±2.0	7.008±0.079
Reel inner diameter	D1	8.0±0.2	0.315 ± 0.008
Feed hole diameter	D2	13±0.5	0.512 ±0.020
Sprocket hole position	E	1.75±0.1	0.069 ± 0.004
Punch hole position	F	5.5 ±0.5	0.217 ±0.020
Punch hole pitch	Р	8.0±0.1	0.315±0.004
Sprocket hole pitch	P0	4.0±0.1	0.157±0.004
Embossment center	P1	2.0 ± 0.05	0.079±0.002
Overall tape thickness	Т	2.65±0.1	0.104 ±0.004
Tape width	W	12.0+0.3/-0.1	0.472+0.012/-0.004
Reel width	W1	16.8±2.0	0.661±0.079

Notes : 1.Devices are packed in accordance with EIA stand RS-481-D and specifications listed above. 2.Available on 7 inch (500 c.t.) or 13 inch (3000 c.t.) diameter reels.



PACKAGING OF DIODE AND BRIDGE RECTIFIERS

REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	COMPONENT SPACE(mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
MD	-T	500			178	390*205*310	16,000	
MD	-W	3,000			330	355*360*350	48,000	15.50



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