

# MSB201S THRU MSB207S

# SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER VOLTAGE RANGE 50 to 1000 Volts CURRENT 2.0 Amperes

### **FEATURES**

- \* Good for automation insertion
- \* Surge overload rating 60 amperes peak
- \* Ideal for printed circuit board
- \* Reliable low cost construction utilizing molded
- \* Glass passivated device
- \* Polarity symbols molded on body
- \* Mounting position: Any

### MECHANICAL DATA

- \* UL listed the recognized component directory, file #E94233
- \* Epoxy: Device has UL flammability classification 94V-O
- \* Halogen-free

# MSBS 1.40±0.10 1.00±0.10 Dimensions in inches and (millimeters)

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25  $^{\circ}\text{C}$  ambient temperature unless otherwise specified. resistive or inductive load.

### MAXIMUM RATINGS (At T<sub>A</sub> = 25°C unless otherwise noted)

RATINGS	SYMBOL	MSB201S	MSB202S	MSB203S	MSB204S	MSB205S	MSB206S	MSB207S	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	Volts
Maximum RMS Bridge Input Voltage	V <sub>RMS</sub>	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 <sub>C</sub> = 110°C	Io	2.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	60						Amps	
pical Current Squared Time I²T 14.94				A <sup>2</sup> S					
Typical Thormal Pagistanes (Nata 2)	R <sub>θJA</sub>	40							
Typical Thermal Resistance (Note 2)	R <sub>θJL</sub>	15						°C/W	
Operating and Storage Temperature Range	ating and Storage Temperature Range T <sub>J,TSTG</sub> -55 to + 150					٥C			

### ELECTRICAL CHARACTERISTICS (At T<sub>A</sub> = 25°C unless otherwise noted)

	,									
CHARACTERISTICS	SYMBOL	MSB201S	MSB202S	MSB203S	MSB204S	MSB205S	MSB206S	MSB207S	UNITS	
Maximum Forward Voltage Drop per Bridge	VE	4.4							Volts	
Element at 2.0A DC	V F	1.1								
Maximum Reverse Current at Rated	@T <sub>A</sub> = 25°C	la	1.0						μAmps	
DC Blocking Voltage per element	@T <sub>A</sub> = 125°C	IR IR	500							μAmps

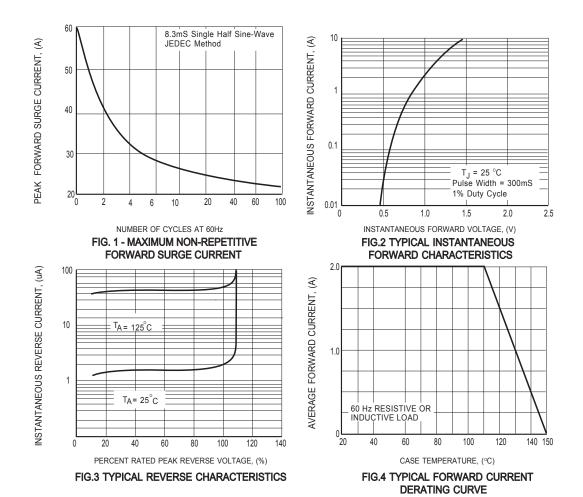
Note: 1."Fully ROHS compliant","100% Sn plating(Pb-free).

2. Thermal Resistance: Mounted on PCB.

3. Available in Halogen-free epoxy by adding suffix -HF after the part nbr.

2016-08 REV: O

## RATING AND CHARACTERISTICS CURVES ( MSB201S THRU MSB207S)





# REEL TAPING SPECIFICATIONS FOR SURFACE MOUNT DEVICES - MSBS

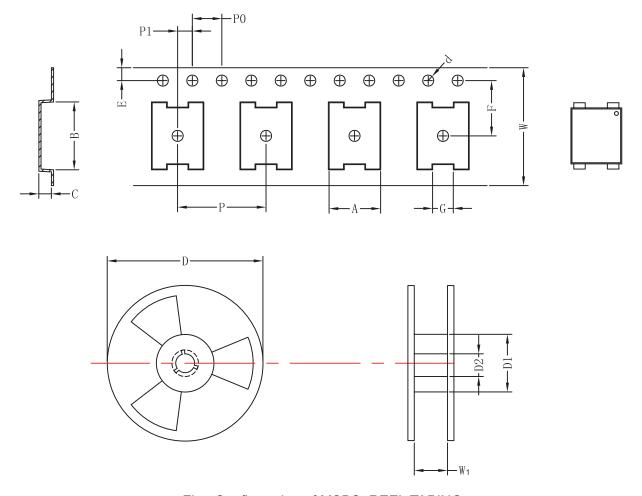


Fig.: Configuration of MSBS REEL TAPING

ITEM	SYMBOL	SPECIFICATIONS (mm)	SPECIFICATIONS (inch)		
Carrier width	А	0.69 ± 0.1	0.272 ± 0.004		
Carrier length	В	7.60 ± 0.1	0.299 ± 0.004		
Carrier depth	С	1.70 ± 0.1	0.067 ± 0.004		
Sprocket hole	d	1.50 ± 0.1	0.059 ± 0.004		
Reel outside diameter	D	330.0 ± 2.0	12.992 ± 0.079		
Reel inner diameter	D1	16.4 ± 2.0	0.646 ± 0.079		
Feed hole diameter	D2	13.0 ± 0.2	0.512 ± 0.008		
Sprocket hole position	Е	1.75 ± 0.1	0.069 ± 0.004		
Punch hole position	F	7.5 ± 0.1	0.295 ± 0.004		
Punch hole pitch	Р	12.0 ± 0.1	0.472 ± 0.004		
Sprocket hole pitch	P0	4.0 ± 0.1	0.157 ± 0.004		
Embossment center	P1	2.0 ± 0.1	0.079 ± 0.004		
Tape width	W	16.0 ± 0.3	0.63 ± 0.012		
Reel width	W1	22.4 ± 1.0	0.882 ± 0.039		

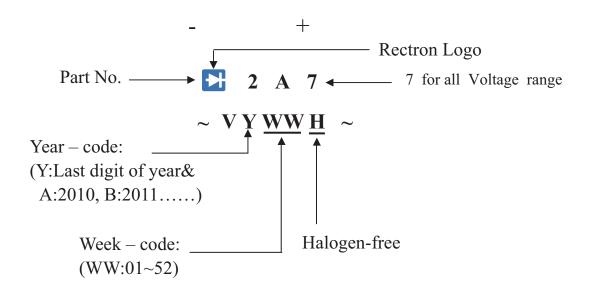
# PACKAGING OF DIODE AND BRIDGE RECTIFIERS

### REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	EA PER INNER BOX	COMPONENT SPACE (mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
MSBS	-T	3,000	3,000	9.5	52	330	360*355*360	24,000	9.0



# **Marking Description**





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