

MSB20A thru MSB20M

026(0.65)

GLASS PASSIVATED SURFACE MOUNT BRIDGE RECTIFIERS

GENERAL DESCRIPTION

Suitable for AC-to-DC bridge full wave rectification

for SMPS, LED lighting, adapter, battery charger, home appliances, office equipment, and telecommunication applications.

FEATURES

- Compact, thin profile package design
- Ideal for SMT manufacturing
- Reliable robust construction
- UL recognized file#E364304

MECHANICAL DATA

- Molding compound meets UL 94 V-0 flammability rating, Halogen-free, RoHS-compliant, and commercial grade
- Polarity indicator: As marked on body
- •Weight: 216 mg

REVERSE VOLTAGE - 50 to 1000 Volts FORWARD CURRENT - 2.0 Amperes MSBL 264(6.70) 205(5.20) .256(6.50) 197(5.00) .049(1.25) .045(1.15) 037(0.95) (depth:0.02~0.08) .037(0.95) (3) . (Ø0.8±0.03) (Pin1) 041(1.05) .311(7.90) .291(7.40) 049(1. 037(0. 339(8.60) 2 283(7 (4) (2) Bottom View Top View (1) .122(3.10) 059(1.5) 051(1.3) 003(0.08) 016(0.40) 114(2.90) 011(0.2 Side View

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

CHARACTERISTICS		SYMBOL	MSB20A	MSB20B	MSB20D	MSB20G	MSB20J	MSB20K	MSB20M	UNIT
Maximum Recurrent Peak Reverse Voltage		VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage		VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @Tc =110℃		l(AV)	2.0							А
Peak Forward Surge Current single half sine-wave	@ 8.3ms @ 1.0ms	IFSM	75 150						А	
Maximum Forward Voltage @ TJ = 25℃	@ 1.0A DC @ 2.0A DC	VF	0.98 1.0					V		
Maximum DC Reverse Current at Rated DC Blocking Voltage	@TJ=25℃ @TJ=125℃	lr	5 500					μA		
Typical junction Capacitance per element (Note 1)		CJ	30							pF
I ² t Rating for fusing (1ms < t < 8.3ms)		l ² t	23.3							l ² t
Typical Thermal Capacitance (Note 2)		Rejc Rejl Reja	10 15 55							°C /W
Operating Temperature Range		TJ	-55 to +150							°C
Storage Temperature Range		Tstg	-55 to +150							°C

NOTES:(1). Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

(2). Thermal Resistance test performed in accordance with JESD-51. Unit mounted on glass-epoxy substrate with

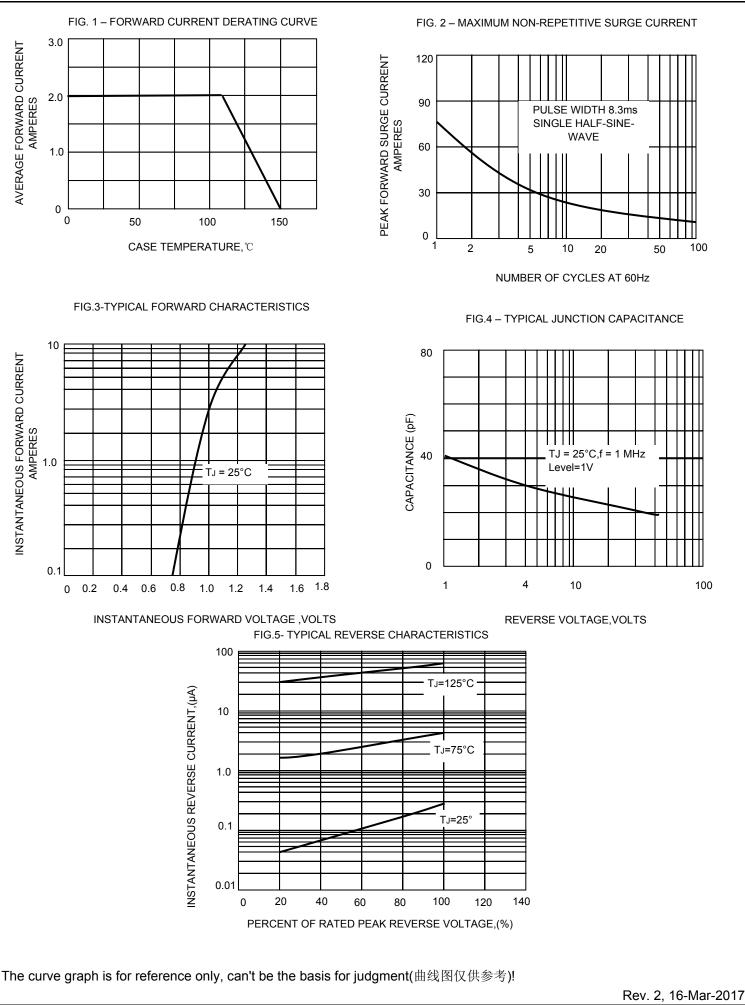
1oz/ft2_20x20 mm copper pad per pin.

(3).The typical data above is for reference only(典型值仅供参考).

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RATING AND CHARACTERISTIC CURVES

MSB20A thru MSB20M









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