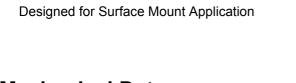


MSB30D THRU MSB30M

GLASS PASSIVATED SURFACE MOUNT BRIDGE RECTIFIERS

Features UMSB

- Glass Passivated Chip Junction
- ◆ Reverse Voltage 200 to 1000 V
- ◆ Forward Current- 3 A
- High Surge Current Capability



Mechanical Data

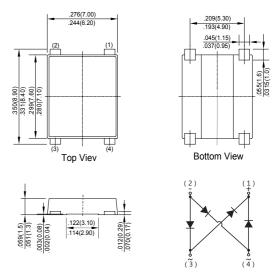
Case: JEDEC UMSB molded plastic body

Terminals': Solderable per MIL-STD-750, Method 2026 $\acute{\Delta}$

Polarity: Polarity symbol marking on body

Mounting Position: Any

Weight: 0.00825 ounce, 0.234 grams



Dimensions in inches and (millimeters)

Maximum Ratings And Electrical Characteristics

Ratings at 25℃ ambient temperature unless otherwise specified.

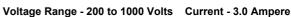
Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Parameter	Symbols	MSB30D	MSB30G	MSB30J	MSB30K	MSB30M	- Units
Marking Code		MDD MB30D	MDD MB30G	MDD MB30J	MDD MB30K	MDD MB30M	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	200	400	600	800	1000	V
Maximum Average Forward Rectified Current	I _{F(AV)}	3					Α
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	80					А
Maximum Forward Voltage at 3.0 A	V _F	1.1					V
	I _R	5 100					μА
Typical Junction Capacitance (Note1)	C _j	40					pF
Typical Thermal Resistance (Note2)	$\begin{array}{c} R_{\theta JA} \\ R_{\theta JC} \\ R_{\theta JL} \end{array}$	60 10 25					°C/W
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +150					°C

Note: 1. Measured at 1MHz and applied reverse voltage of 4 V D.C.

2. P.C.B. mounted with $4\times1.5"\times1.5"$ (3.81×3.81 cm) copper pad areas.







Typical Characterisitics

Fig.1 Average Rectified Output Current Derating Curve

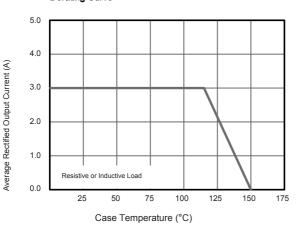


Fig.2 Typical Reverse Characteristics

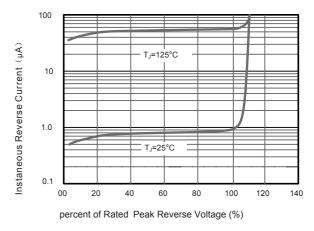


Fig.3 Typical Instaneous Forward
Characteristics T_J=25°C

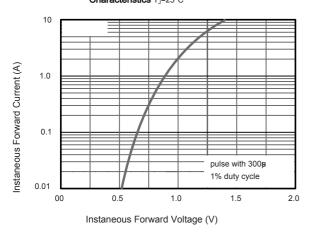


Fig.4 Typical Junction Capacitance

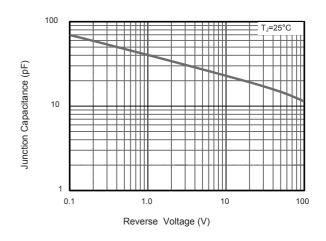


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

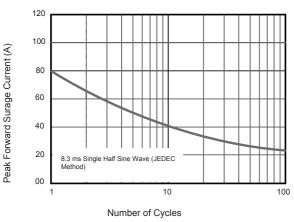
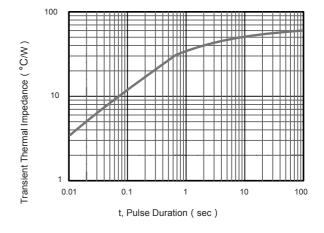


Fig.6- Typical Transient Thermal Impedance



The curve above is for reference only.

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MSB30D THRU MSB30M

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