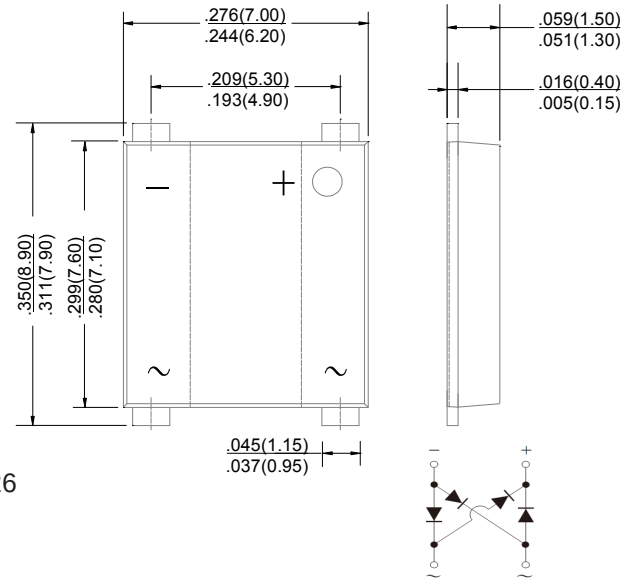
RMSB30M

Single Phase 3.0Amp Fast Recovery Bridge Rectifiers

Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Idea for printed circuit board
- Glass passivated Junction chip
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed 260℃/10 seconds at terminals

MSBL



Dimensions in inches and (millimeters)

Mechanical Data

Case : Molded plastic body
Terminals : Solder plated, solderable per MIL-STD-750,Method 2026
Polarity : Polarity symbol marking on body
Mounting Position : Any

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	RMSB30M	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	1000	V
Maximum RMS voltage	V_{RMS}	700	V
Maximum DC blocking voltage	V_{DC}	1000	V
Maximum average forward rectified current at T_L=100℃ On glass-epoxy P.C.B (Note 1)	$I_{(AV)}$	3.0	A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	100.0	A
Rating for fusing (t=8.3ms, Ta=25℃)	I^2t	41.5	A^2s
Maximum instantaneous forward voltage at 3.0A	V_F	1.30	V
Maximum DC reverse current T_A =25℃ at rated DC blocking voltage T_A=125℃	I_R	5.0 100	u A
Maximum reverse recovery time (Note 2)	Trr	500	ns
Typical junction capacitance (Note 3)	C_J	40.0	pF
Typical thermal resistance(Note 4)	R_{qJA}	20.0	℃/W
Operating junction and storage temperature range	T_J,T_{STG}	-55 to +150	°C

Note:1.Mounted on glass epoxy PC board with 1.3*1.3mm solder pad
2. Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, Irr=0.25A
3.Measured at 1MHz and applied reverse voltage of 4.0V D.C.
4.Mounted on 15 mm*12 mm*1.6mm AL pad attach 195 mm*110 mm*10 mm steel plate

Ratings And Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

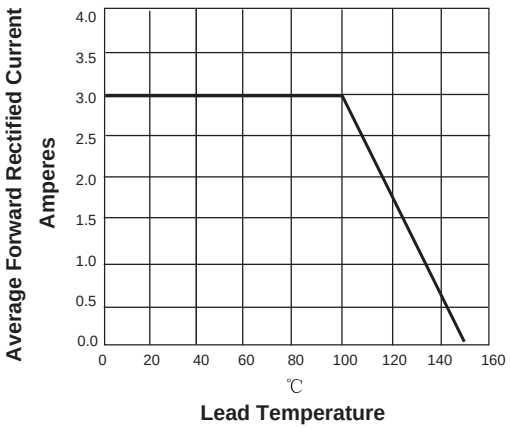


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

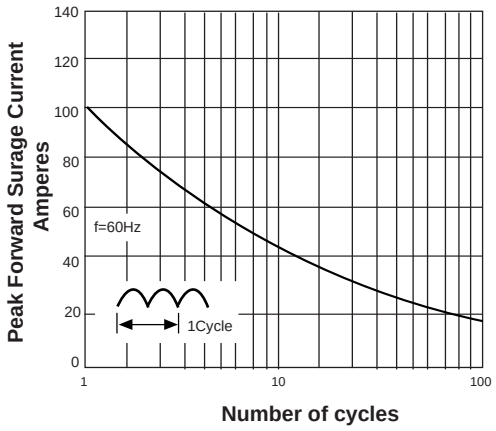


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

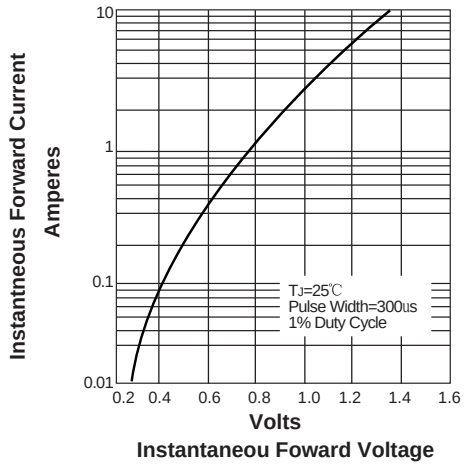


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS

