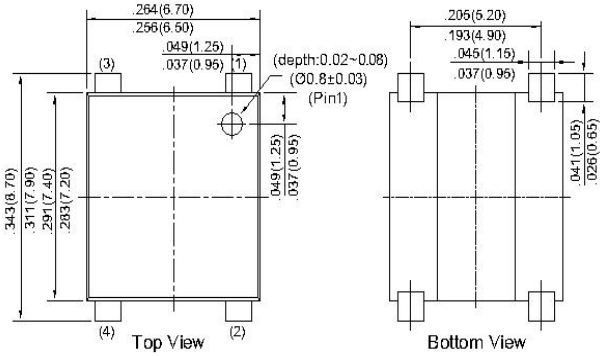
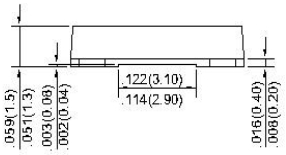
RMSB301 thru RMSB307
RMSB3005 RMSB310

3.0A Single-Phase Fast Recovery Bridge Rectifiers

Recifiter Reverse Voltage 50V to 1000V

MSB





SPACING

Features

- Glass passivated junction
- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- Suge overload ratings to 50 amperes peak
- Ideal for printed circuit board application
- High temperature soldering guaranteed 265℃/10 seconds at 5 lbs(2.3kg)tension

Mechanical Data

Case:Molded plastic
Terminals:Platde leads solderable per MIL-STD-750, Method 2026
Polarity:Polarity symbols molded or Marked on body
Mounting Position:Any
Weight:0.007ounce,0.2 grams(approx)

Maximum Ratings & Thermal Characteristics

Rating at 25℃ ambient temperature unless otherwise specified,Resistive or inductive load,60HZ.
For Capacitive load derate current by 20%

Parameter	Symbol	RMSB 301 / RMSB 3005	RMSB 302 / RMSB 301	RMSB 303 / RMSB 302	RMSB 304 / RMSB 304	RMSB 305 / RMSB 306	RMSB 306 / RMSB 308	RMSB 307 / RMSB 310	unit
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS bridge input 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 output current at TA=40℃	IF(AV)	3.0							A
Maximum instantaneous forward voltage drop per leg at 1.5A	VF	0.95			1.25				V
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	IFSM	80							A
Maximum DC reverse current at ratde TA=25℃ DC blocking voltage per element TA=125℃	IR	10 500							UA
Maximum reverse recovery time at	Trr	150				250	500		nS
Rating for fusing(t<8.3ms)	I^2t	60							A^2sec
Typical thermal resistance per element(1)	ReJA	110							℃/w
Typical thermal resistance per element(2)	Cj	25.0							PF
Operating junction and stroage temperature range	TJ, TSTG	-55to+150							℃

Notes:(1)Thermal resistance from Junction to Ambemt on P.C.board mounting.
(2)Measured at 1.0MHz and applied reverse voltage of 4.0 volts.

4.0A Single-Phase Fast Recovery Bridge Rectifiers

Rating and Characteristic Curves(TA=25℃ Uniless otherwise noted)

FIG.1-FORWARD DERATING CURRENT

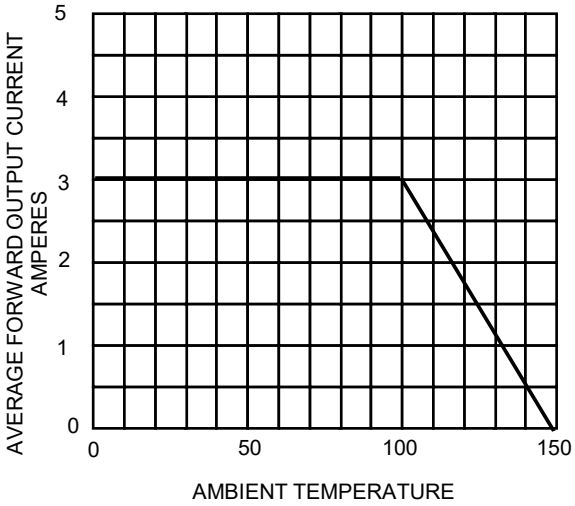


FIG.2-MAXIMUM NON-REPETITIVE SUNRGE CURRENT

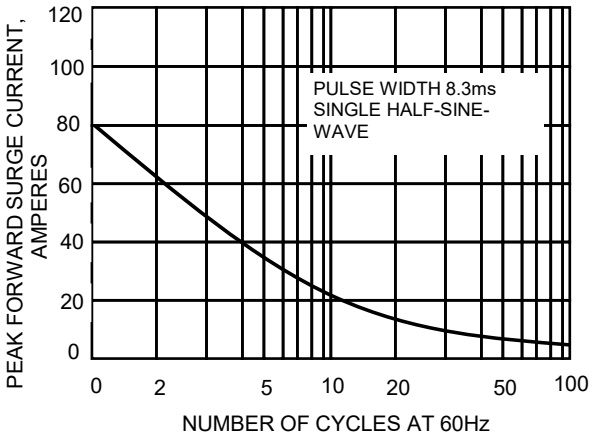


FIG.3-TYPICAL FORWARD

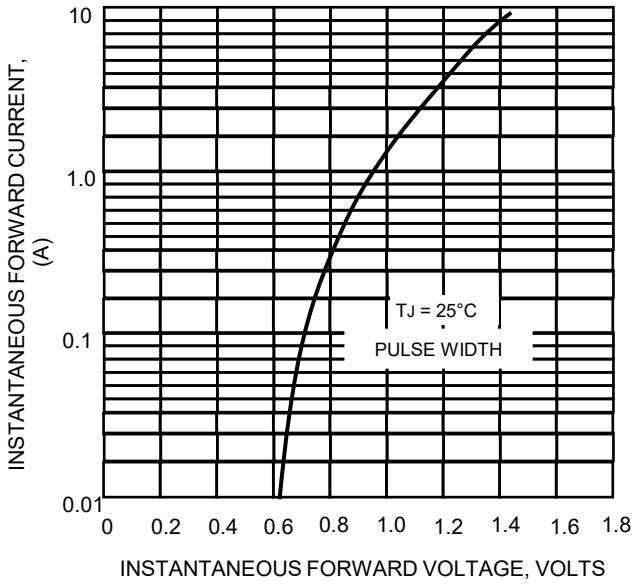
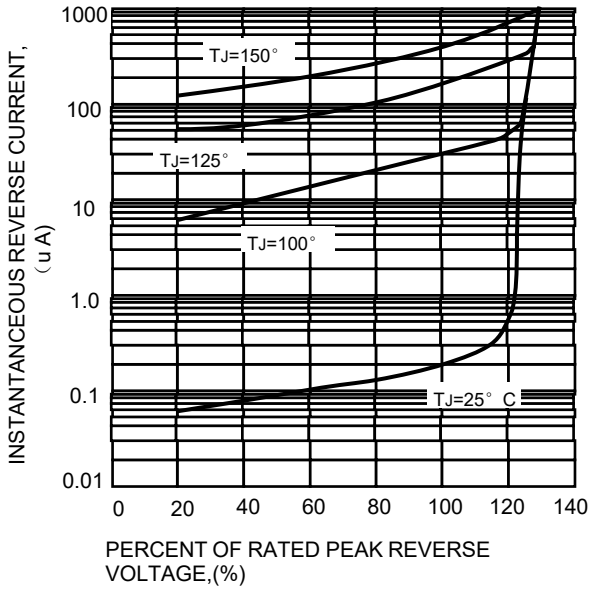


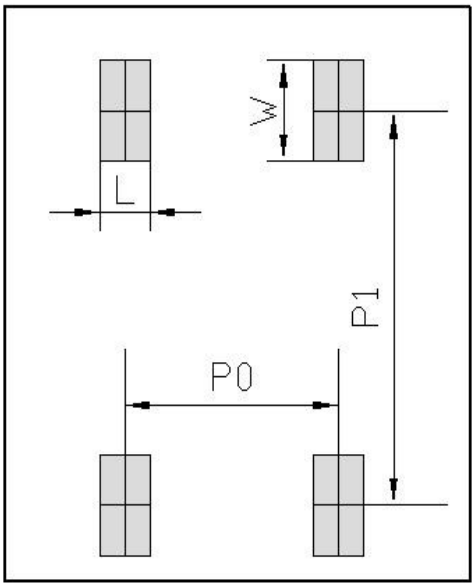
FIG.4-TYPICAL REVERSE



Ordering Information(Example)

PREFFREN P/N	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
RMSB301~ RMSB307 RMSB3005~ RMSB310	Approximate 0.20	3000	6000	36000	REEL

Suggested pad layout



Dimensions in millimeters

	Unit:mm
DIM	MIN
P0	5.12
P1	8.73
L	1.2
W	2.22