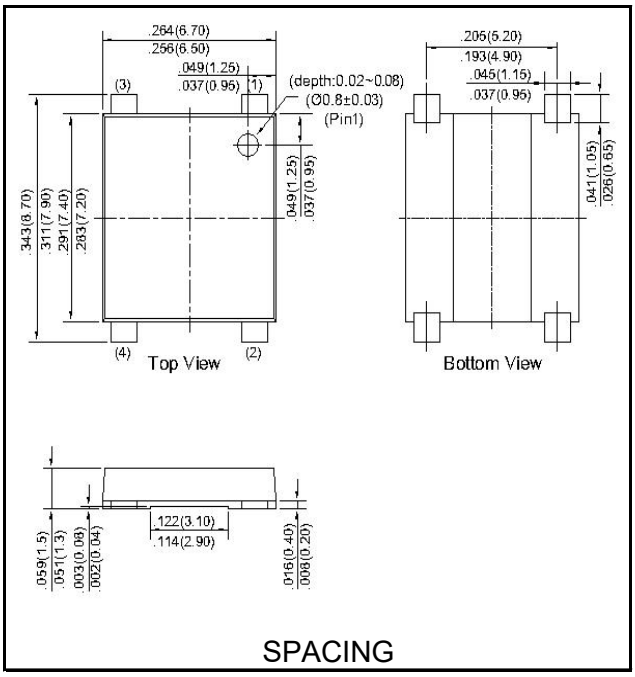
RMSB601 thru RMSB607
RMSB6005 RMSB610

6.0A Single-Phase Fast Recovery Bridge Rectifiers

Recifiter Reverse Voltage 50V to 1000V

RoHS COMPLIANT

MSB



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 601 / RMSB 6005	RMSB 602 / RMSB 601	RMSB 603 / RMSB 602	RMSB 604 / RMSB 604	RMSB 605 / RMSB 606	RMSB 606 / RMSB 608	RMSB 607 / RMSB 610	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)	6.0							A
Maximum instantaneous forward voltage drop per leg at 3.0A	VF	0.95			1.25				V
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	IFSM	125							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.

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

FIG.1-FORWARD DERATING CURRENT

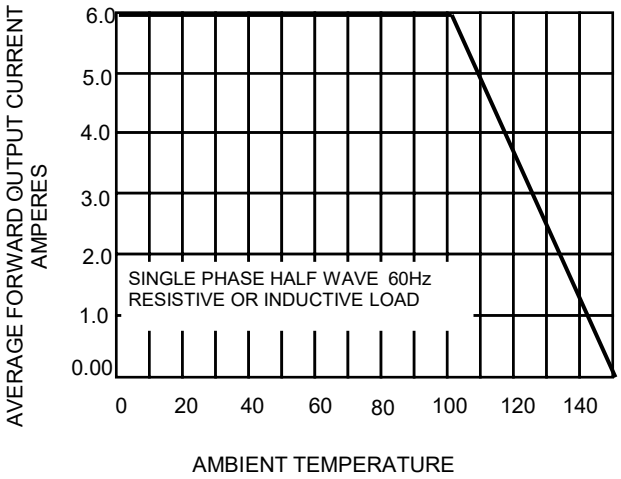


FIG.2-MAXIMUM NON-REPETITIVE SUNRGE

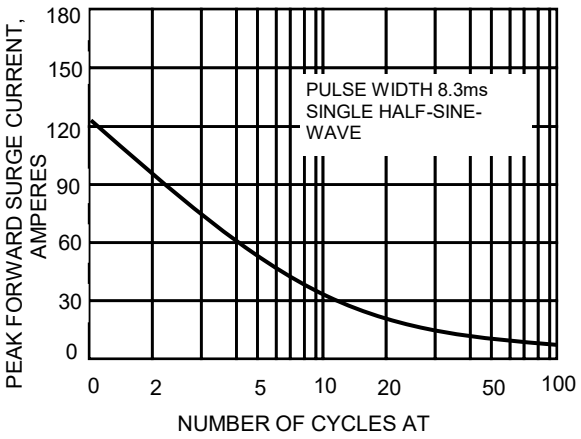


FIG.3-TYPICAL FORWARD

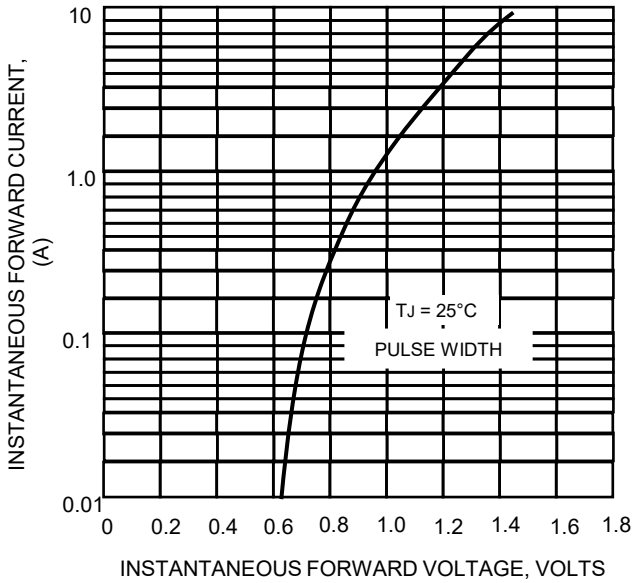
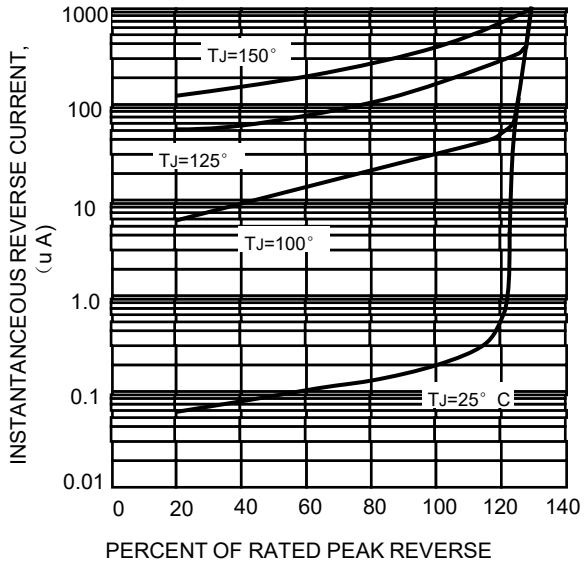


FIG.4-TYPICAL REVERSE



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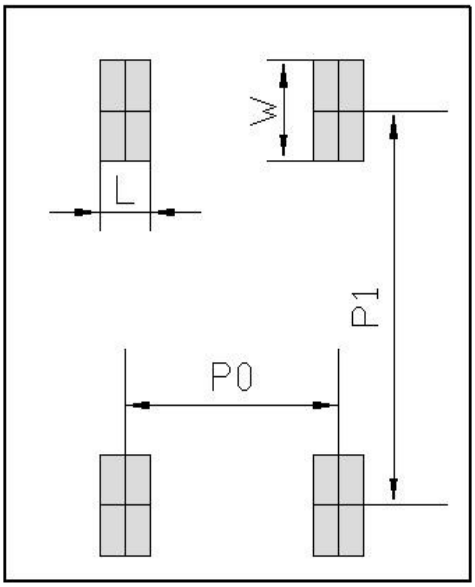
Ordering Information(Example)

PREFFREN P/N	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
RMSB601~ RMSB607 RMSB6005~ RMSB610	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