



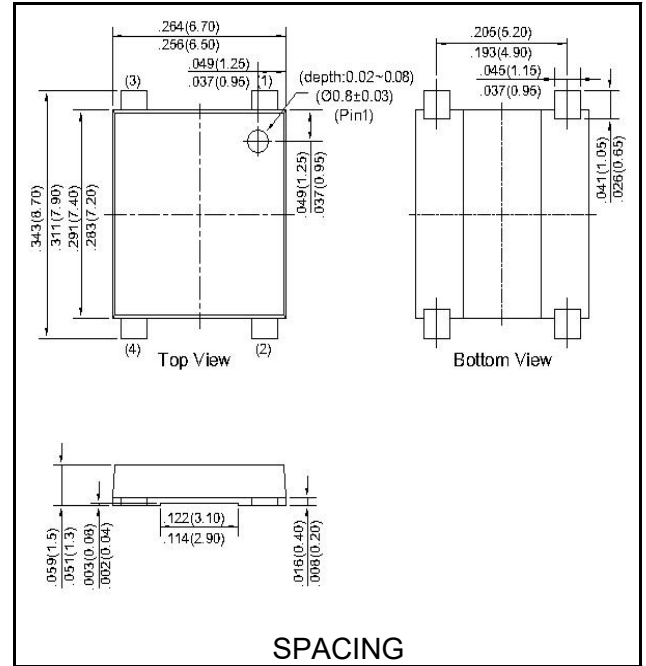
### MSB

### Features

- Glass passivated junction
- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- Surge overload ratings to 100 amperes peak
- Ideal for printed circuit board application
- High temperature soldering guaranteed 265°C/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



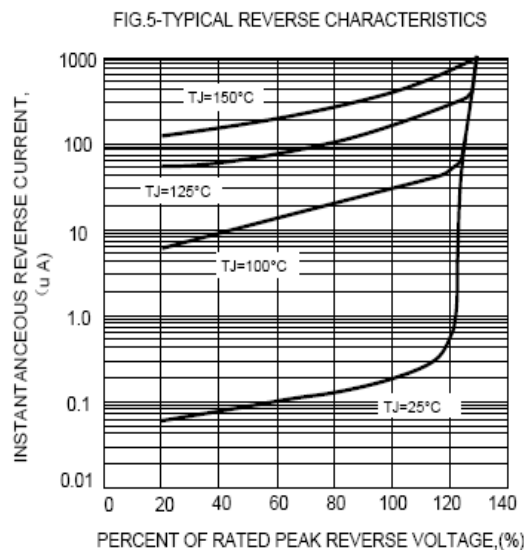
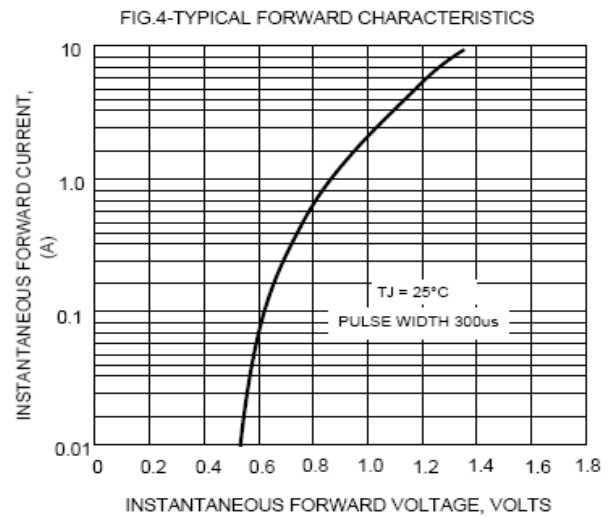
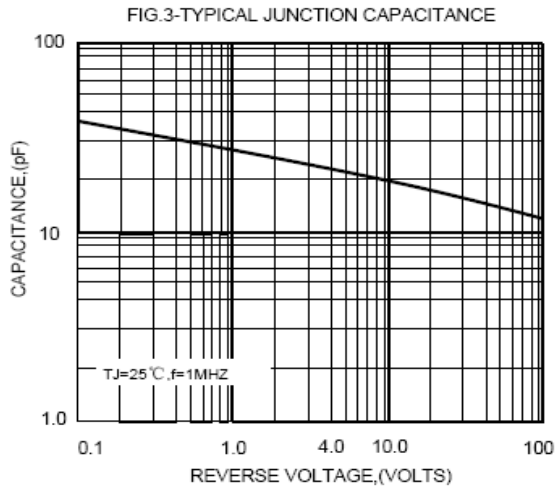
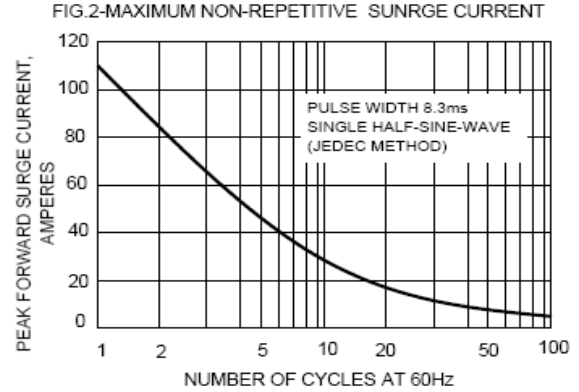
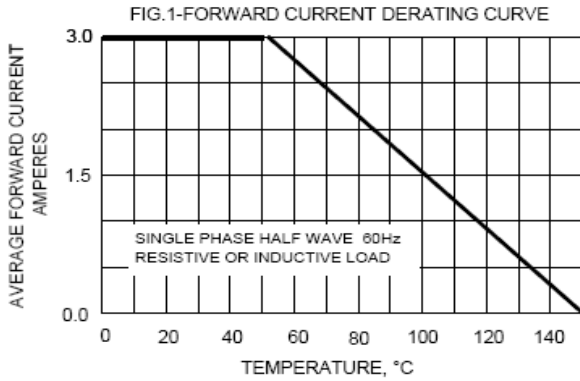
### Maximum Ratings & Thermal Characteristics

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

Parameter	Symbol	RMSB310	unit
Maximum repetitive peak reverse voltage	VRRM	1000	V
Maximum RMS bridge input voltage	VRMS	700	V
Maximum DC blocking voltage	VDC	1000	V
Maximum average forward rectified output current at TA=40°C	IF(AV)	3.0	A
Maximum instantaneous forward voltage drop per leg at 3.0A	VF	1.3	V
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	IFSM	110	A
Maximum reverse recovery time(note 1)	TRR	500	ns
Maximum DC reverse current at ratde TA=25°C	IR	5	UA
DC blocking voltage per element TA=125°C		500	
Rating for fusing(t<8.3ms)	I <sup>2</sup> t	50	A <sup>2</sup> sec
Typical thermal resistance to ambient	ReJA	55	°C/w
Typical thermal resistance to case	ReJC	10.0	
Typical thermal resistance to lead	ReJL	15.0	
Operating junction and stroage temperature range	TJ, TSTG	-55to+150	°C

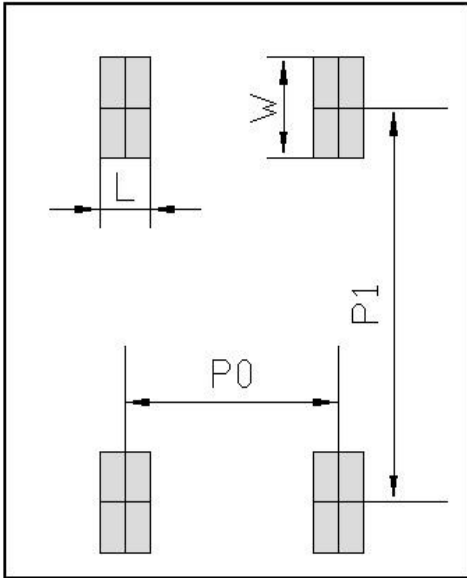
Notes:1 Measured with IF=0.5A,IR=1A,IRR=0.25A

### Rating and Characteristic Curves (TA=25°C Unless otherwise noted)



**Ordering Information(Example)**

PREFFREN P/N	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
TMBFR310	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

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Bridge Rectifiers](#) category:*

*Click to view products by [LGE](#) manufacturer:*

Other Similar products are found below :

[MB2510](#) [MB252](#) [MB356G](#) [MB358G](#) [MP358-BP](#) [90MT160KPBF](#) [GBJ1504-BP](#) [GBU10B-BP](#) [GBU15J-BP](#) [GBU15K-BP](#) [GBU4A-BP](#)  
[GBU4D-BP](#) [GSIB680-E3/45](#) [DB101-BP](#) [DF01](#) [DF10SA-E345](#) [BU1508-E3/45](#) [BU1510-E3/45](#) [KBPC50-10S](#) [RS405GL-BP](#) [26MT120](#)  
[G5SBA60-E3/51](#) [GBJ1502-BP](#) [GBU10J-BP](#) [GBU4J-BP](#) [GBU6M](#) [GBU8D-BP](#) [GBU8J-BP](#) [GSIB1520-E3/45](#) [TB102M](#) [MB1510](#) [MB6M-G](#)  
[MB86](#) [TL401G](#) [MDA920A2](#) [TU602](#) [TU810](#) [MP501W-BP](#) [MP502-BP](#) [BR1005-BP](#) [BR101-BP](#) [BR84DTP204](#) [BU1010A-E3/51](#) [BU1508-](#)  
[E3/51](#) [BU2006-E3/45](#) [BU2008-E3/51](#) [US15KB80R-7000](#) [KBPC25-02](#) [VS-60MT120KPBF](#) [DB105-BP](#)