

Silicon Power

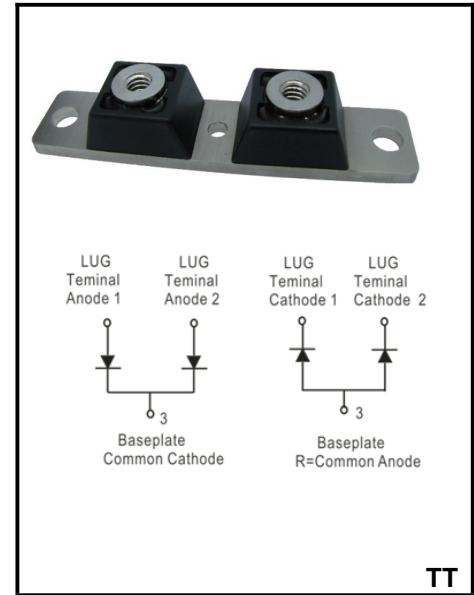
Schottky Diode

Reverse Voltage - 45 to 100 V

Forward Current - 200A

Features

- ◆ High Surge Capability
- ◆ Types from 45 V to 100 V V_{RRM}
- ◆ Not ESD Sensitive



Maximum ratings, at $T_j = 25^\circ\text{C}$, unless otherwise specified ("R" devices have leads reversed)

Parameter	Symbols	MBR20045TT(R)	MBR20060TT(R)	MBR20080TT(R)	MBR200100TT(R)	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	45	60	80	100	V
Maximum RMS voltage	V_{RMS}	32	42	57	70	V
Maximum DC Blocking Voltage	V_{DC}	45	60	80	100	V
Average forward current(per pkg) $T_c = 125^\circ\text{C}$	$I_{F(AV)}$	200				A
Peak forward surge current (per leg) $t_p = 8.3\text{ ms}$, half sine	I_{FSM}	1500				A
Forward Voltage Per Leg @ $I_{FM} = 100\text{A}$ $T_j = 25^\circ\text{C}$	V_F	0.7	0.75	0.84	0.84	V
Maximum DC Reverse Current at Rated DC Blocking Voltage (per leg) @ $T_j = 25^\circ\text{C}$ @ $T_j = 100^\circ\text{C}$ @ $T_j = 150^\circ\text{C}$	I_R	1 10 30				mA
Maximum thermal resistance per leg	$R_{\theta JC}$	0.45				$^\circ\text{C/W}$
Operating temperature	T_j	$-55 \sim +150$				$^\circ\text{C}$
Storage temperature	T_{stg}	$-55 \sim +150$				$^\circ\text{C}$

Figure .1- Typical Forward Characteristics

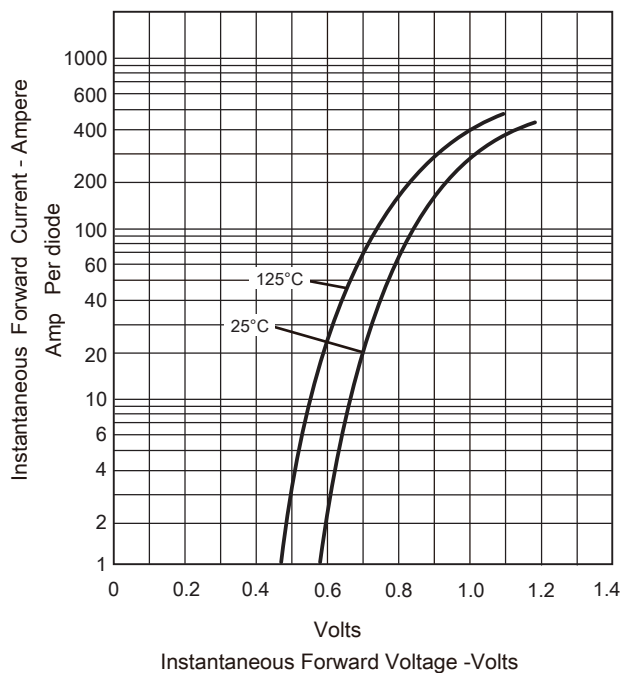


Figure .2-Forward Derating Curve

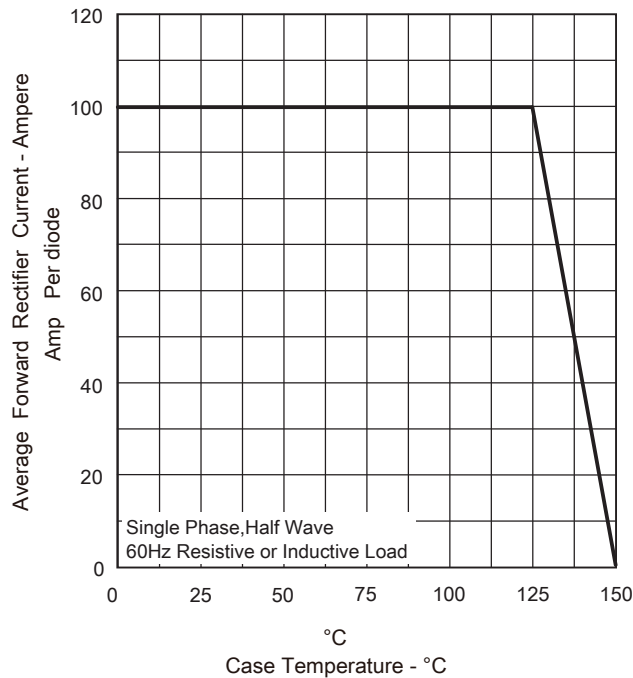


Figure .3- Peak Forward Surge Current

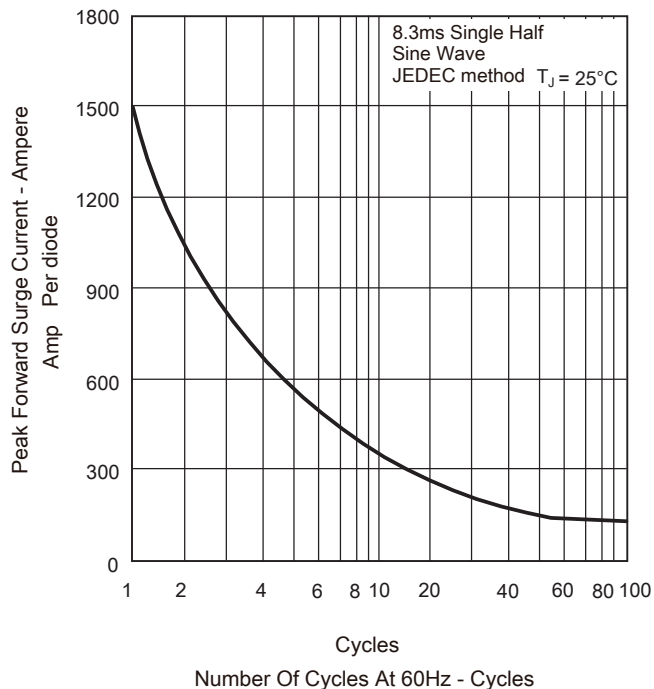
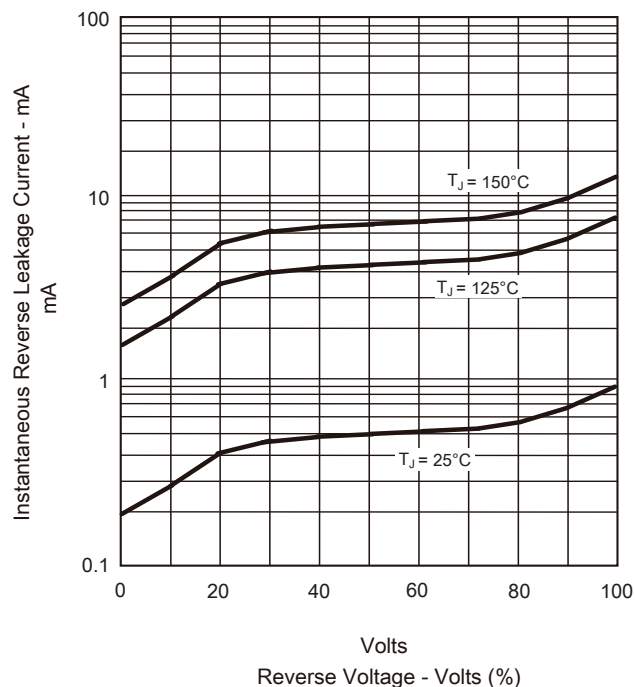


Figure .4-Typical Reverse Characteristics

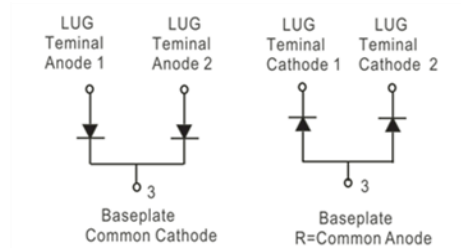
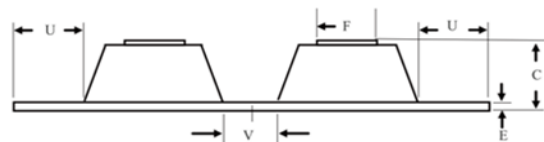
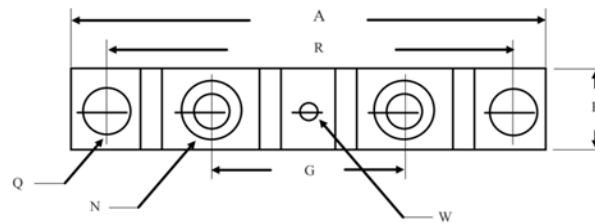


Ordering information

Package	Packing Description	Packing Quantity
TT	bulk	100PCS/Box 1 000 PCS/Carton

Package Dimensions

TT



DIM	Inches		Millimeters	
	Min	Max	Min	Max
A	-----	3.630	-----	92.40
B	0.700	0.800	17.78	20.32
C	-----	0.650	-----	16.51
E	0.130	0.141	3.30	3.60
F	0.482	0.490	12.25	12.45
G	1.368	BSC	34.75	BSC
N	1/4-20 UNC FULL			
Q	0.275	0.290	6.99	7.37
R	3.150	BSC	80.01	BSC
U	0.600	-----	15.24	-----
V	0.312	0.370	7.92	9.40
W	0.180	0.195	4.57	4.95

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