

## Silicon Power Schottky Diode

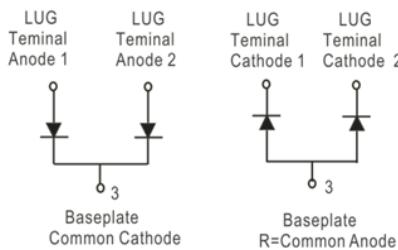
$V_{RRM} = 150 \text{ V - } 200 \text{ V}$

$I_{F(AV)} = 500 \text{ A}$

### Features

- High Surge Capability
- Types from 150 V to 200 V  $V_{RRM}$
- Not ESD Sensitive

### Twin Tower Package



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

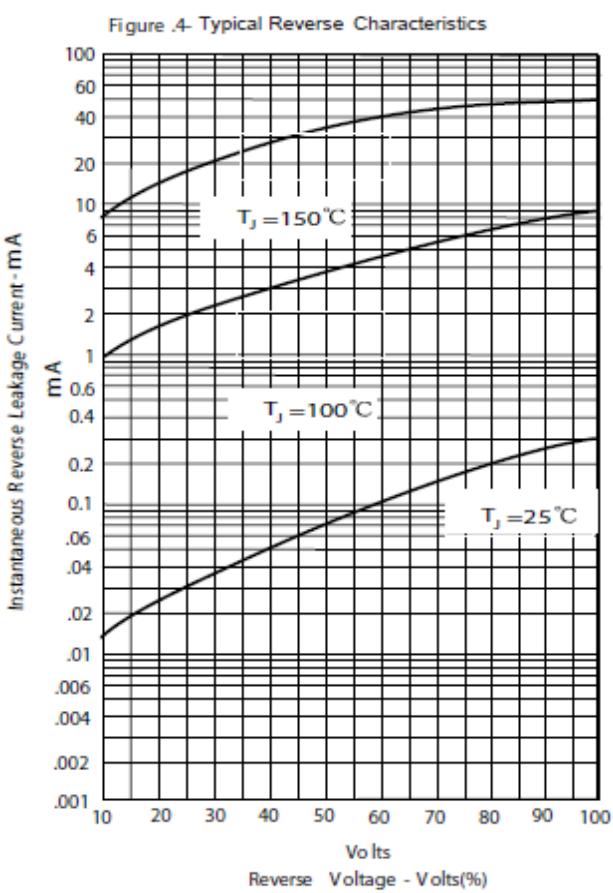
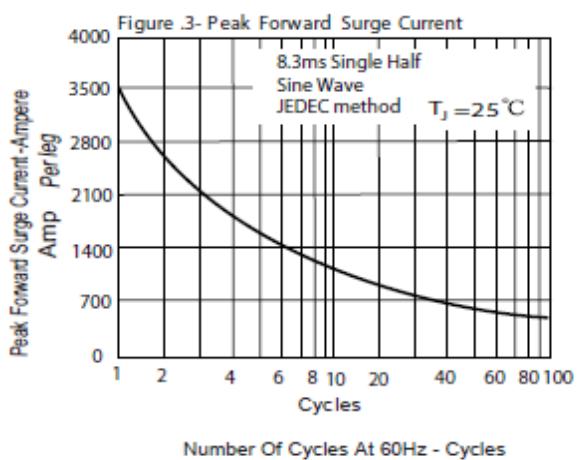
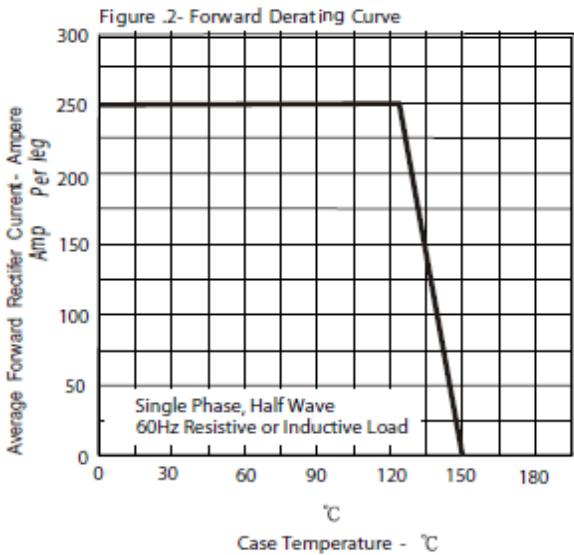
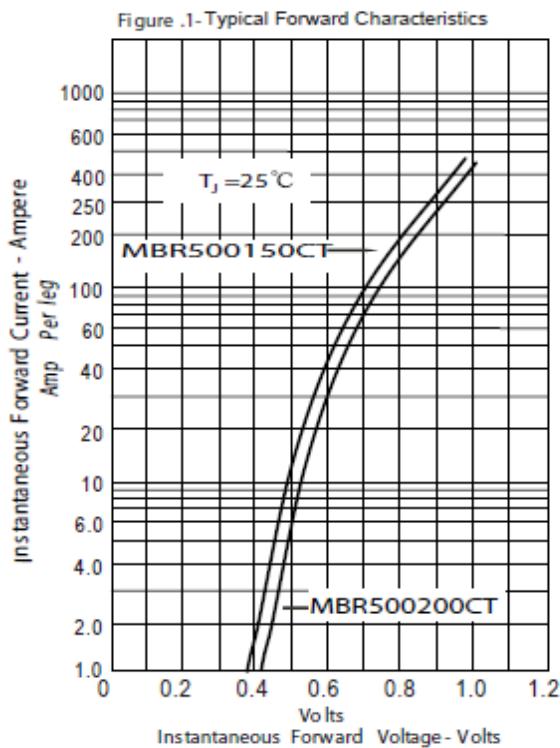
Parameter	Symbol	Conditions	MBR500150CT(R)	MBR500200CT(R)	Unit
Repetitive peak reverse voltage	$V_{RRM}$		150	200	V
RMS reverse voltage	$V_{RMS}$		106	141	V
DC blocking voltage	$V_{DC}$		150	200	V
Operating temperature	$T_j$		-55 to 150	-55 to 150	°C
Storage temperature	$T_{stg}$		-55 to 150	-55 to 150	°C

### Electrical characteristics, at $T_j = 25^\circ\text{C}$ , unless otherwise specified

Parameter	Symbol	Conditions	MBR500150CT(R)	MBR500200CT(R)	Unit
Average forward current (per pkg)	$I_{F(AV)}$	$T_C = 125^\circ\text{C}$	500	500	A
Peak forward surge current (per leg)	$I_{FSM}$	$t_p = 8.3 \text{ ms, half sine}$	3500	3500	A
Maximum forward voltage (per leg)	$V_F$	$I_{FM} = 250 \text{ A}, T_j = 25^\circ\text{C}$	0.88	0.92	V
Reverse current at rated DC blocking voltage (per leg)	$I_R$	$T_j = 25^\circ\text{C}$ $T_j = 100^\circ\text{C}$ $T_j = 150^\circ\text{C}$	3 10 50	3 10 50	mA

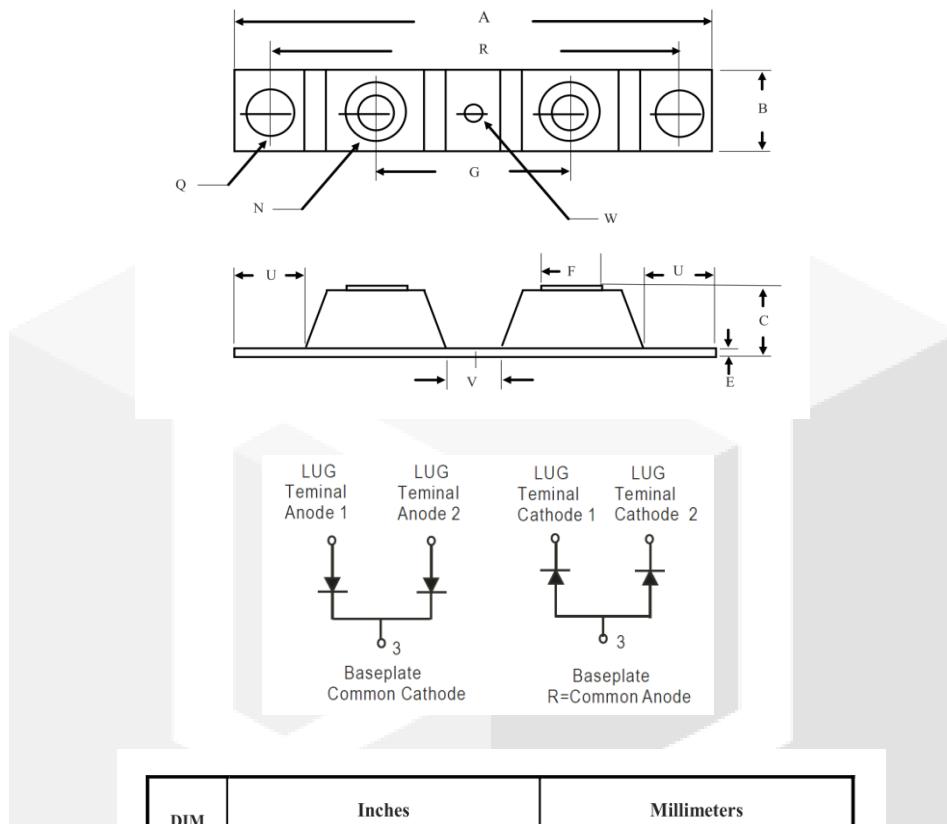
### Thermal characteristics

Thermal resistance, junction-case (per leg)	$R_{\theta JC}$	0.30	0.30	°C/W
---	-----------------	------	------	------



## Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.



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