

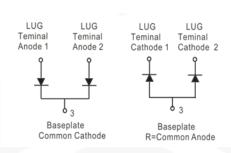
## MBR20045CT thru MBR200100CTR

# Silicon Power Schottky Diode

 $V_{RRM} = 45 \text{ V} - 100 \text{ V}$  $I_{F(AV)} = 200 \text{ A}$ 

#### **Features**

- High Surge Capability
- $\bullet$  Types from 45 V to 100 V  $V_{\text{RRM}}$
- Not ESD Sensitive





**Twin Tower Package** 

#### Maximum ratings, at T<sub>i</sub> = 25 °C, unless otherwise specified ("R" devices have leads reversed)

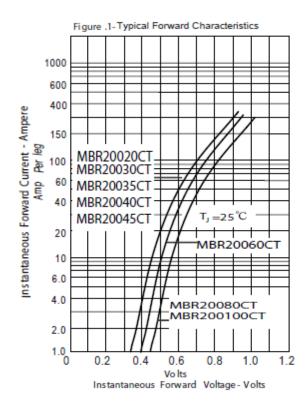
Parameter	Symbol	Conditions	MBR20045CT(R) MI	BR20060CT(R)	MBR20080CT(R)	MBR200100CT(R)	Unit
Repetitive peak reverse voltage	$V_{RRM}$		45	60	80	100	V
RMS reverse voltage	V <sub>RMS</sub>		32	42	57	70	V
DC blocking voltage	V <sub>DC</sub>		45	60	80	100	V
Operating temperature	Tj		-55 to 150	-55 to 150	-55 to 150	-55 to 150	°C
Storage temperature	T <sub>stg</sub>		-55 to 150	-55 to 150	-55 to 150	-55 to 150	°C

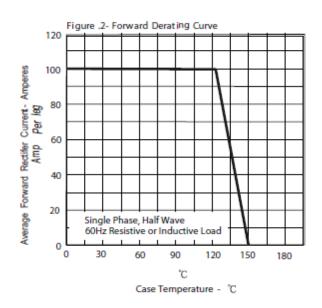
#### Electrical characteristics, at Tj = 25 °C, unless otherwise specified

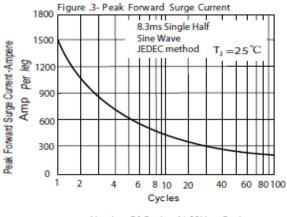
Parameter	Symbo	l Conditions	MBR20045CT(R)	MBR20060CT(R)	MBR20080CT(R)	MBR200100CT(R)	Unit	
Average forward current (per pkg)	I <sub>F(AV)</sub>	T <sub>C</sub> = 125 °C	200	200	200	200	Α	
Peak forward surge current (per leg)	I <sub>FSM</sub>	$t_p = 8.3 \text{ ms}$ , half sine	1500	1500	1500	1500	Α	
Maximum forward voltage (per leg)	V <sub>F</sub>	I <sub>FM</sub> = 100 A, T <sub>j</sub> = 25 °C	0.70	0.75	0.84	0.84	V	
Reverse current at rated		T <sub>j</sub> = 25 °C	1	1	1	1		
DC blocking voltage (per leg)	I <sub>R</sub>	$T_j = 100  ^{\circ}C$	10	10	10	10	mA	
		$T_j = 150  ^{\circ}C$	30	30	30	30		
Thermal characterist	ics							
Thermal resistance, junction-case, per leg	$R_{\Theta JC}$		0.45	0.45	0.45	0.45	°C/W	

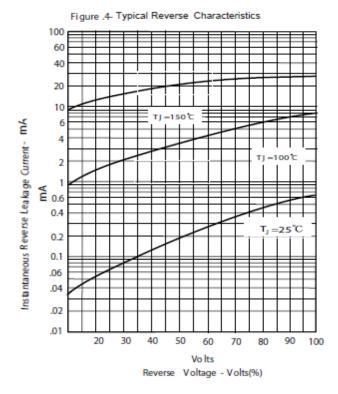


## MBR20045CT thru MBR200100CTR









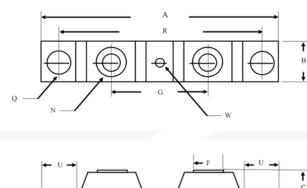
Number Of Cycles At 60Hz - Cycles

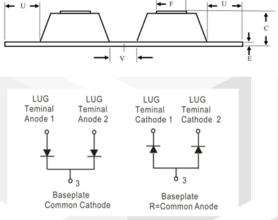


## MBR20045CT thru MBR200100CTR

### Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.





DIM	Inc	hes	Millimeters					
İ	Min	Max	Min	Max				
A		3.630		92.40				
В	0.700	0.800	17.78	20.32				
С		0.650		16.51				
Е	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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<u>25.163.2453.0</u> <u>25.</u>	163.4253.0	25.190.2053.0	25.194.3453.0	25.320.4853.1	25.320.5253.1	25.326.3253.1	25.326.3553.1	25.330.1653.1
<u>25.330.4753.1</u> <u>25.</u>	330.5253.1	25.334.3253.1	25.334.3353.1	25.350.2053.0	25.352.4753.1	25.522.3253.0	<u>T483C</u> <u>T484C</u>	T485F T485H
T512F-YEB T513	<u>F T514F T</u>	<u>T612FSE</u>	25.161.3453.0	25.179.2253.0	25.194.3253.0	25.325.1253.1	25.326.4253.1	25.330.0953.1
<u>25.332.4353.1</u> <u>25.</u>	350.1653.0	25.350.2453.0	25.352.1453.0	25.352.1653.0	25.352.2453.0	25.352.5453.1	25.522.3353.0	25.602.4053.0
25.640.5053.0								