

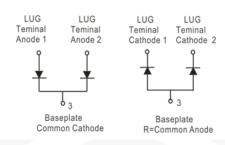
MBR50045CT thru MBR500100CTR

Silicon Power Schottky Diode

 $V_{RRM} = 45 \text{ V} - 100 \text{ V}$ $I_{F(AV)} = 500 \text{ A}$

Features

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





Twin Tower Package

Maximum ratings, at T_i = 25 °C, unless otherwise specified ("R" devices have leads reversed)

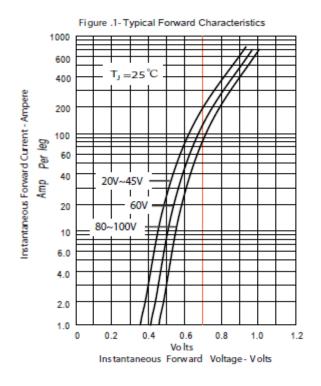
Parameter	Symbol	Conditions	MBR50045CT(R) M	IBR50060CT(R)	MBR50080CT(R)	MBR500100CT(R)	Unit
Repetitive peak reverse voltage	V_{RRM}		45	60	80	100	V
RMS reverse voltage	V _{RMS}		32	42	57	70	V
DC blocking voltage	V_{DC}		45	60	80	100	V
Operating temperature	Tj		-55 to 150	-55 to 150	-55 to 150	-55 to 150	°C
Storage temperature	T _{stg}		-55 to 150	-55 to 150	-55 to 150	-55 to 150	°C

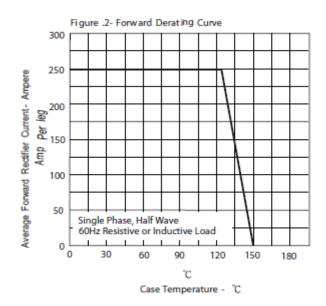
Electrical characteristics, at Tj = 25 °C, unless otherwise specified

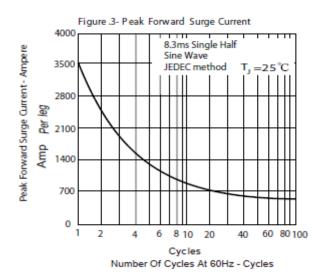
Parameter	Symbo	I Conditions	MBR50045CT(R)	MBR50060CT(R)	MBR50080CT(R)	MBR500100CT(R)	Unit	
Average forward current (per pkg)	I _{F(AV)}	T _C = 125 °C	500	500	500	500	Α	
Peak forward surge current (per leg)	I _{FSM}	t_p = 8.3 ms, half sine	3500	3500	3500	3500	Α	
Maximum forward voltage (per leg)	V _F	I _{FM} = 250 A, T _j = 25 °C	0.75	0.78	0.84	0.84	V	
Reverse current at rated DC blocking voltage (per leg)	I _R	T _j = 25 °C	1	1	1	1		
		$T_j = 100 ^{\circ}C$	10	10	10	10	mA	
		$T_j = 150 ^{\circ}C$	50	50	50	50		
Thermal characterist	ics							
Thermal resistance, junction-case, per leg	$R_{\Theta JC}$		0.30	0.30	0.30	0.30	°C/W	

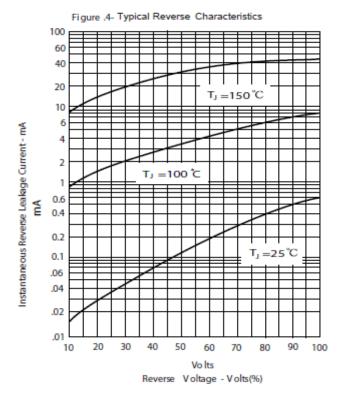


MBR50045CT thru MBR500100CTR





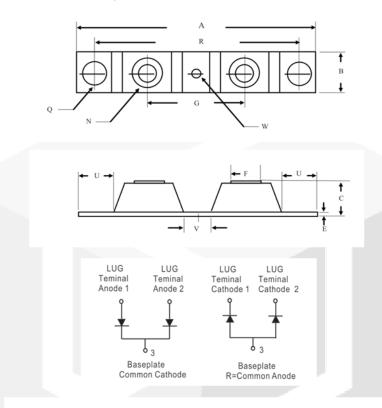




MBR50045CT thru MBR500100CTR

Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.



DIM	Inc	hes	Millimeters		
	Min	Max	Min	Max	
Α		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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M252511FV DD2	260N12K-A	DD380N16A	DD89N1600K-	$\underline{\mathbf{A}}$ $\underline{\mathbf{APT2X21D0}}$	C60J <u>APT58M</u>	80J B522F-2-Y	YEC MSTC90-1	6 25.163.0653.1
<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								