

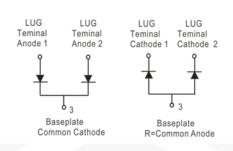
MBR12045CT thru MBR120100CTR

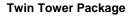
Silicon Power Schottky Diode

 $V_{RRM} = 45 \text{ V} - 100 \text{ V}$ $I_{F(AV)} = 120 \text{ A}$

Features

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









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

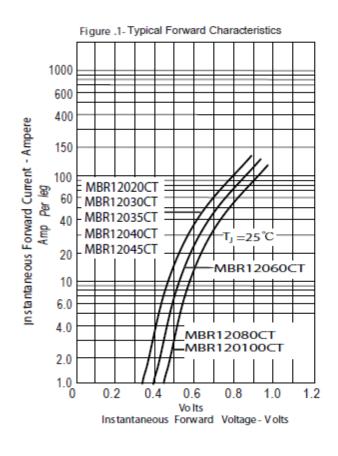
Parameter	Symbol	Conditions	MBR12045CT(R) M	BR12060CT(R)	MBR12080CT(R)	MBR120100CT(R)	Unit
Repetitive peak reverse voltage	V_{RRM}		45	60	80	100	V
RMS reverse voltage	V _{RMS}		32	42	57	70	V
DC blocking voltage	V_{DC}		45	60	80	100	V
Operating temperature	Tj		-55 to 150	-55 to 150	-55 to 150	-55 to 150	°C
Storage temperature	T _{stg}		-55 to 150	-55 to 150	-55 to 150	-55 to 150	°C

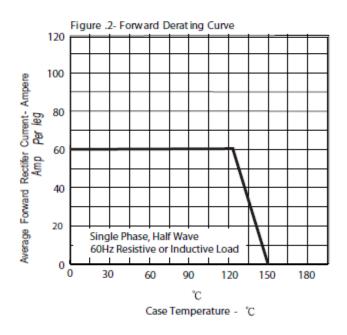
Electrical characteristics, at Tj = 25 °C, unless otherwise specified

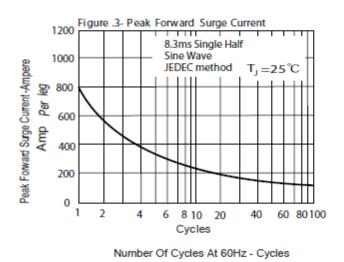
Parameter	Symbol	Conditions	MBR12045CT(R)	MBR12060CT(R)	MBR12080CT(R)	MBR120100CT(R)	Unit		
Average forward current (per pkg)	I _{F(AV)}	T _C = 125 °C	120	120	120	120	Α		
Peak forward surge current (per leg)	I _{FSM}	$t_p = 8.3 \text{ ms}$, half sine	800	800	800	800	Α		
Maximum forward voltage (per leg)	V_{F}	I _{FM} = 60 A, T _j = 25 °C	0.7	0.75	0.84	0.84	V		
Reverse current at rated		T _j = 25 °C	1	1	1	1			
DC blocking voltage (per leg)	I_R	$T_j = 100 ^{\circ}C$	10	10 10 10		10	mA		
		T _j = 150 °C	30	30	30	30			
Thermal characteristics									
Thermal resistance, junction-case, per leg	R _{oJC}		0.80	0.80	0.80	0.80	°C/W		

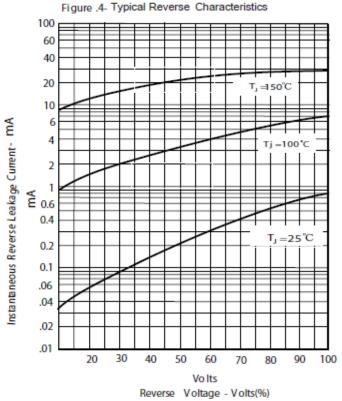


MBR12045CT thru MBR120100CTR





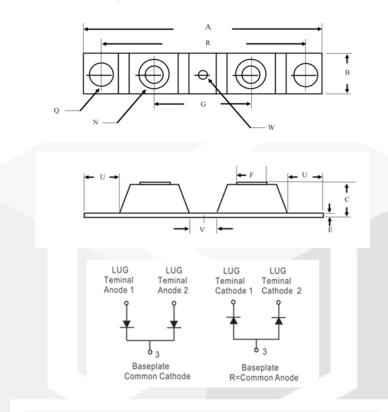




MBR12045CT thru MBR120100CTR

Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.



DIM	Inch	ies	Millimeters			
	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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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								