

MBR30045CT thru MBR300100CTR

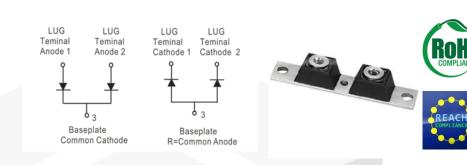
Twin Tower Package

Silicon Power Schottky Diode

V_{RRM} = 45 V - 100 V I_{F(AV)} = 300 A

Features

- High Surge Capability
- 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)

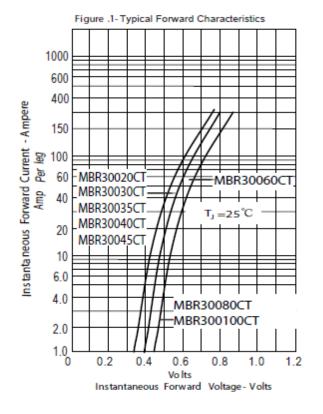
Parameter	Symbol	Conditions	MBR30045CT(R) M	BR30060CT(R)	MBR30080CT(R)	MBR300100CT(R)	Unit
Repetitive peak reverse voltage	V _{RRM}		45	60	80	100	V
RMS reverse voltage	V _{RMS}		32	42	57	70	V
DC blocking voltage	V _{DC}		45	60	80	100	V
Operating temperature	Tj		-55 to 150	-55 to 150	-55 to 150	-55 to 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	MBR30045CT(R)	MBR30060CT(R)	MBR30080CT(R)	MBR300100CT(R)	Unit	
Average forward current (per pkg)	I _{F(AV)}	T _C = 125 °C	300	300	300	300	А	
Peak forward surge current (per leg)	I _{FSM}	$t_p = 8.3 \text{ ms}$, half sine	2000	2000	2000	2000	А	
Maximum forward voltage (per leg)	V_{F}	I _{FM} = 150 A, T _j = 25 °C	0.70	0.75	0.84	0.84	V	
Reverse current at rated DC blocking voltage (per leg)	I _R	T _j = 25 °C	1	1	1	1	mA	
		T _j = 100 °C	10	10	10	10		
		T _j = 150 °C	50	50	50	50		
Thermal characteristics								
Thermal resistance, junction-case, per leg	$R_{\Theta JC}$		0.40	0.40	0.40	0.40	°C/W	



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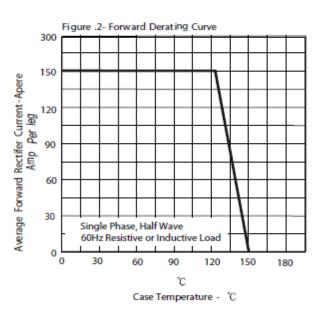
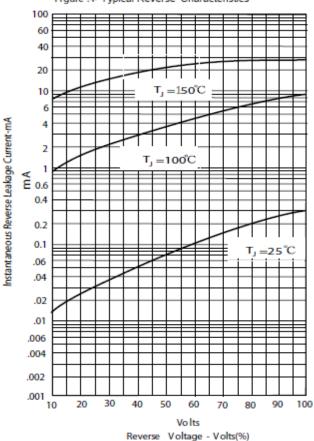
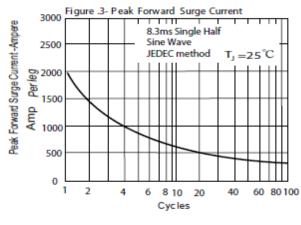


Figure .4- Typical Reverse Characteristics



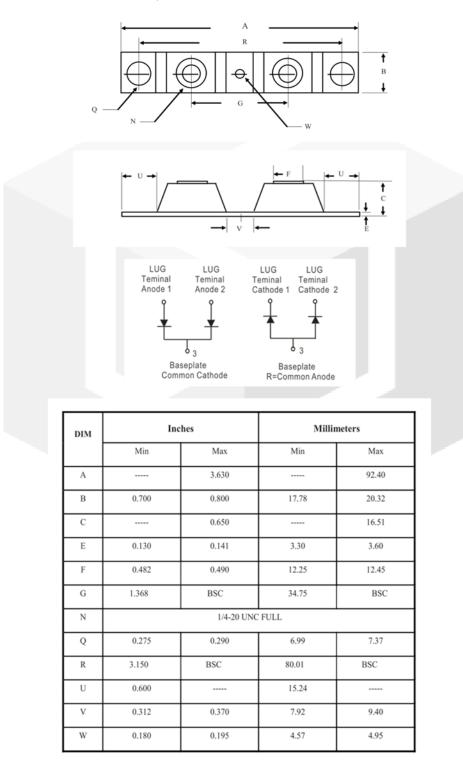


Number Of Cycles At 60Hz - Cycles



Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.



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<u>M252511FV</u> <u>DD260N12K-A</u> <u>DD380N16A</u>	DD89N1600K-A	APT2X21DO	C60J <u>APT58M</u>	80J <u>B522F-2-Y</u>	TEC MSTC90-1	<u>6</u> <u>25.163.0653.1</u>
<u>25.163.2453.0</u> <u>25.163.4253.0</u> <u>25.190.2053.0</u>	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>25.330.5253.1</u> <u>25.334.3253.1</u>	25.334.3353.1	25.350.2053.0	25.352.4753.1	25.522.3253.0	<u>T483C</u> <u>T484C</u>	<u>T485F</u> <u>T485H</u>
<u>T512F-YEB</u> <u>T513F</u> <u>T514F</u> <u>T554</u> <u>T612FSE</u>	25.161.3453.0 2	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>25.350.1653.0</u> <u>25.350.2453.0</u>	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						