

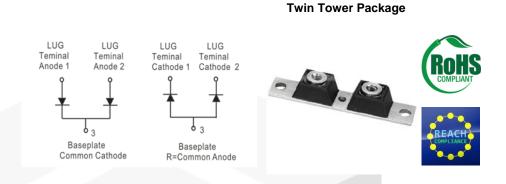
MBR30020CT thru MBR30040CTR

Silicon Power Schottky Diode

V_{RRM} = 20 V - 40 V I_{F(AV)} = 300 A

Features

- High Surge Capability
- Types from 20 V to 40 V $V_{\rm RRM}$
- Not ESD Sensitive



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

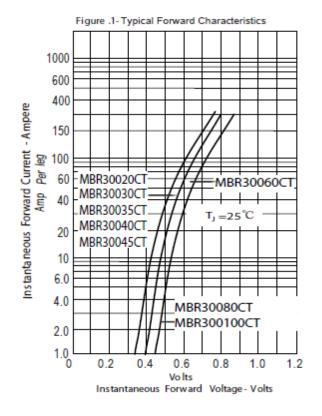
Parameter	Symbol	Conditions	MBR30020CT(R) M	BR30030CT(R)	MBR30035CT(R)	MBR30040CT(R)	Unit
Repetitive peak reverse voltage	V _{RRM}		20	30	35	40	V
RMS reverse voltage	V _{RMS}		14	21	25	28	V
DC blocking voltage	V _{DC}		20	30	35	40	V
Operating temperature	Tj		-55 to 150	-55 to 150	-55 to 150	-55 to 150	°C
Storage temperature	T _{stg}		-55 to 150	-55 to 150	-55 to 150	-55 to 150	°C

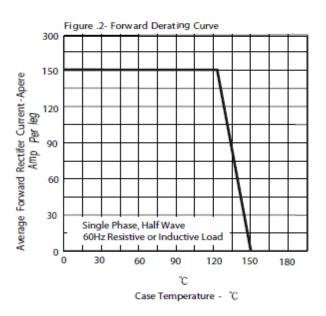
Electrical characteristics, at Tj = 25 °C, unless otherwise specified

Parameter	Symbo	Conditions	MBR30020CT(R)	MBR30030CT(R)	MBR30035CT(R)	MBR30040CT(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	0.70	0.70	0.70	V
Reverse current at rated		T _j = 25 °C	1	1	1	1	
DC blocking voltage	I _R	T _j = 100 °C	10	10	10	10	mA
(per leg)		T _j = 150 °C	50	50	50	50	
Thermal characterist	ics						
Thermal resistance, junction-case, per leg	$R_{\Theta JC}$		0.40	0.40	0.40	0.40	°C/W



MBR30020CT thru MBR30040CTR







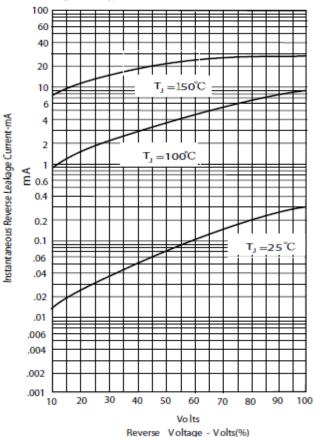


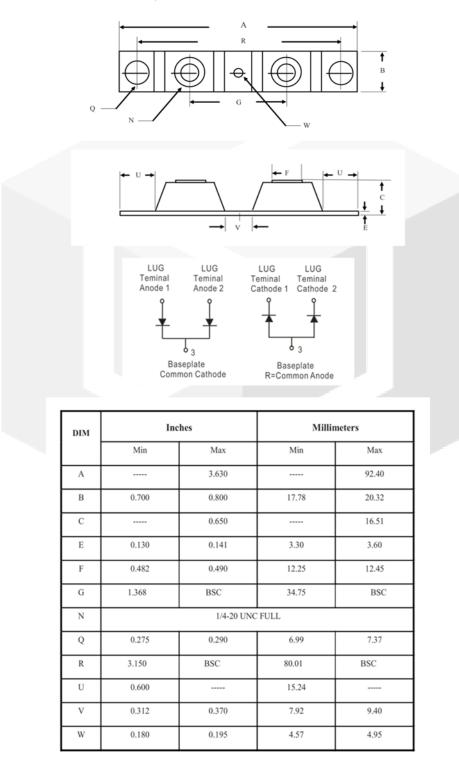
Figure .3- Peak Forward Surge Current 3000 Peak Forward Surge Current-Ampere 8.3ms Single Half Sine Wave 2500 JEDEC method T_J =25 ℃ ออา มอ 1500 du 1000 500 0 2 1 4 6 8 10 20 40 60 80100 Cycles

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						