

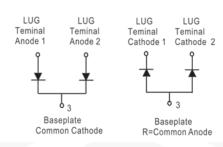
MBR30020CT thru MBR30040CTR

Silicon Power Schottky Diode

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

Features

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







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

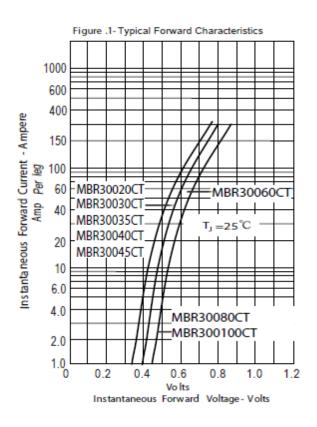
Parameter	Symbol	Conditions	MBR30020CT(R) N	IBR30030CT(R)	MBR30035CT(R)	MBR30040CT(R)	Unit
Repetitive peak reverse voltage	V_{RRM}		20	30	35	40	V
RMS reverse voltage	V _{RMS}		14	21	25	28	V
DC blocking voltage	V_{DC}		20	30	35	40	V
Operating temperature	Tj		-55 to 150	-55 to 150	-55 to 150	-55 to 150	°C
Storage temperature	T _{stg}		-55 to 150	-55 to 150	-55 to 150	-55 to 150	°C

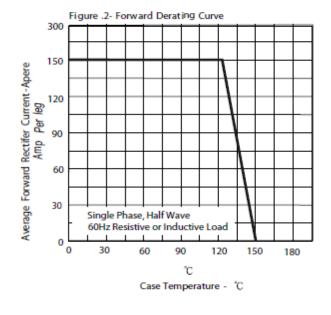
Electrical characteristics, at Tj = 25 °C, unless otherwise specified

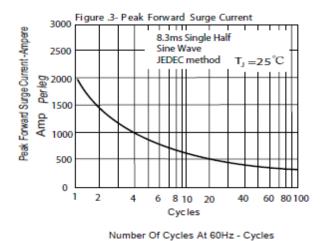
Parameter	Symbo	I Conditions	MBR30020CT(F	R) MBR30030CT(R)	MBR30035CT(R)	MBR30040CT(R)	Unit	
Average forward current (per pkg)	I _{F(AV)}	T _C = 125 °C	300	300	300	300	А	
Peak forward surge current (per leg)	I _{FSM}	$t_p = 8.3 \text{ ms}$, half sine	2000	2000	2000	2000	Α	
Maximum forward voltage (per 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	$T_j = 100 ^{\circ}C$	10	10	10	10	mΑ	
(per leg)		$T_j = 150 ^{\circ}C$	50	50	50	50		
Thermal characterist	ics							
Thermal resistance, junction-case, per leg	R _{oJC}		0.40	0.40	0.40	0.40	°C/W	

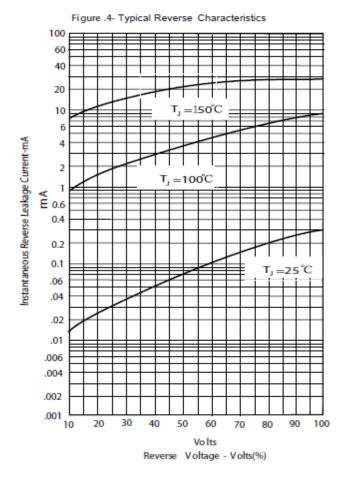


MBR30020CT thru MBR30040CTR





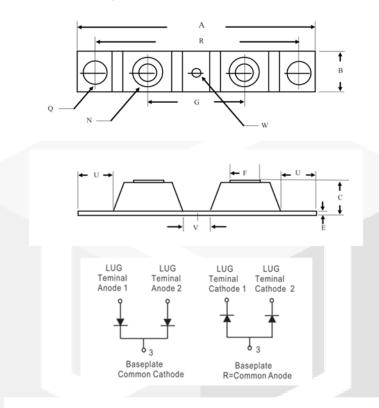




MBR30020CT thru MBR30040CTR

Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.



DIM	Inc	hes	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								