

MBRT40045 thru MBRT400100R

Silicon Power Schottky Diode

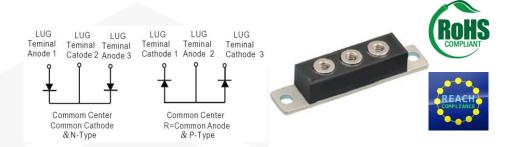
 $V_{RRM} = 45 V - 100 V$

 $I_{F(AV)} = 400 A$

Three Tower Package

Features

- High Surge Capability
- Types from 45 V to 100 V V_{RRM}
- Isolation Type Package
- Electrically Isolated Base Plate
- Not ESD Sensitive



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

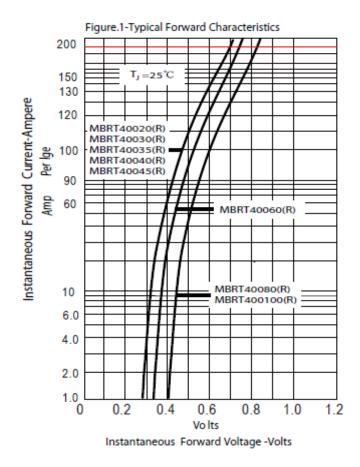
Parameter	Symbol	Conditions	MBRT40045	(R) MBRT40060(F	R) MBRT40080(R	R) MBRT400100(R)	Unit
Repetitive peak reverse ve	oltage V _{RRM}		45	60	80	100	V
RMS reverse voltage	V_{RMS}		32	42	56	70	V
DC blocking voltage	V_{DC}		45	60	80	100	V
Operating temperature	T _j		-55 to 150	-55 to 150	-55 to 150	-55 to 150	°C
Storage temperature	T_{stg}		-55 to 150	-55 to 150	-55 to 150	-55 to 150	°C

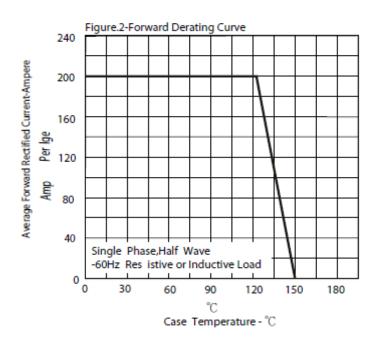
Electrical characteristics, at Tj = 25 °C, unless otherwise specified

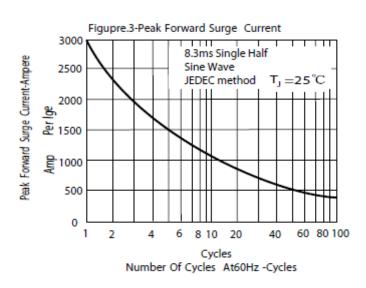
Parameter	Symbol	Conditions	MBRT40045(R)	MBRT40060(R)	MBRT40080(R)	MBRT400100	(R) Unit
Average forward current (per pkg)	$I_{F(AV)}$	T _C =125 °C	400	400	400	400	Α
Peak forward surge current (per leg)	I _{FSM}	$t_p = 8.3 \text{ ms}, \text{ half sine}$	3000	3000	3000	3000	А
Maximum instantaneous forward voltage (per leg)	V _F	$I_{FM} = 200 \text{ A}, T_j = 25 \text{ °C}$	0.70	0.75	0.84	0.84	V
Maximum Instantaneous reverse		T _j = 25 °C	1	1	1	1	
current at rated DC blocking	I_R	$T_j = 100 ^{\circ}C$	10	10	10	10	mA
voltage (per leg)		$T_j = 150 ^{\circ}\text{C}$	50	50	50	50	
Thermal characteristics							
Maximum thermal resistance, junction - case (per leg)	$R_{\Theta JC}$		0.35	0.35	0.35	0.35	°C/W

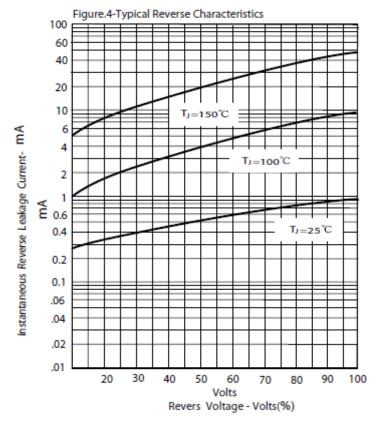


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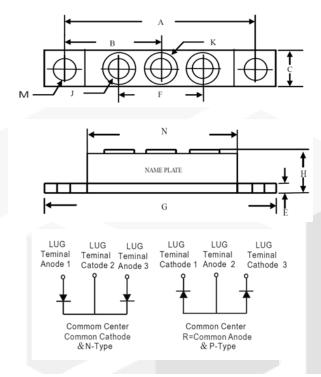




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Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.



DIM	Inc	hes	Millimeters				
	Min	Max	Min	Max			
А	3.150	NOM	80.01	NOM			
В	1.565	1.585	39.75	40.26			
С	0.700	0.800	17.78	20.32			
Е	0.119	0.132	3.02	3.35			
F	1.327		33.72				
G	3.550	3.650	90.17	92.71			
Н	0.677	0.720	17.20	18.30			
J	1/4 -20 UNC FULL						
K	0.472	0.511	12	13			
М	0.275	0.295	6.99	7.49			
N	2.380	2.460	60.5	62.5			

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25.163.2453.0 25.	.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
25.330.4753.1 25.	.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> 3F 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
25.332.4353.1 25.	.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								