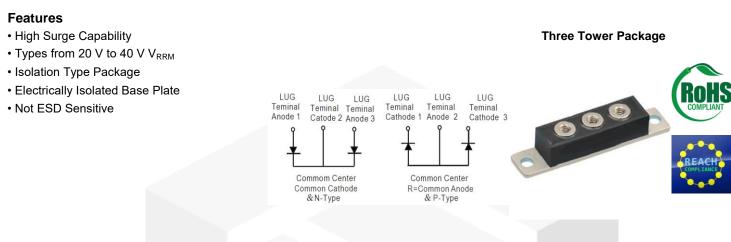


### MBRT40020 thru MBRT40040R

### Silicon Power Schottky Diode

### $V_{RRM} = 20 V - 40 V$ $I_{F(AV)} = 400 A$



#### Maximum ratings, at T<sub>j</sub> = 25 °C, unless otherwise specified ("R" devices have leads reversed)

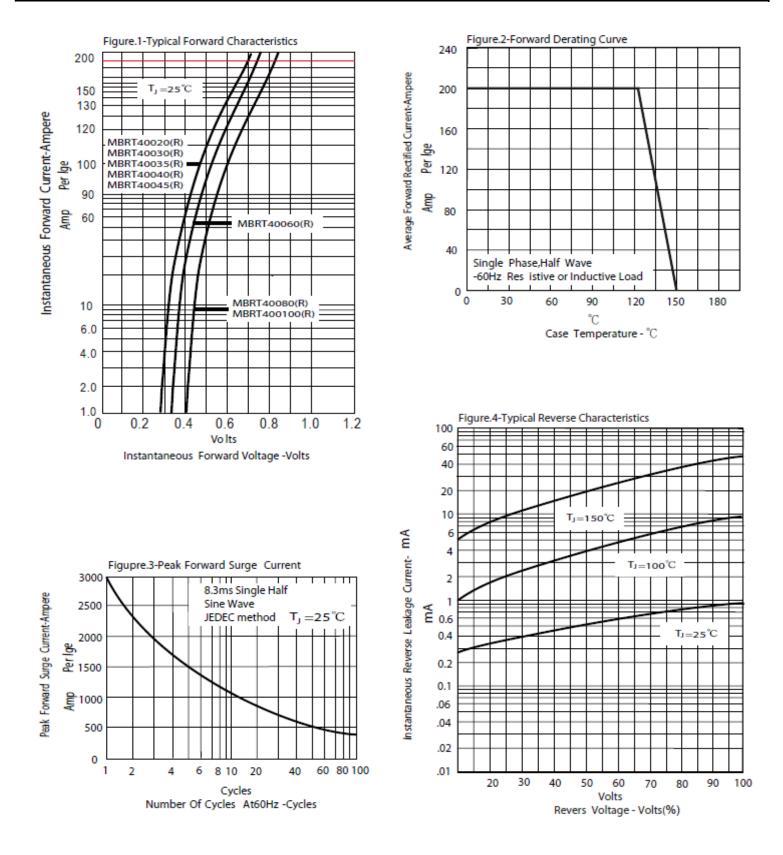
Parameter	Symbol	Conditions	MBRT40020	(R) MBRT40030	R) MBRT40035(R	) MBRT40040(R)	Unit
Repetitive peak reverse v	oltage V <sub>RRM</sub>		20	30	35	40	V
RMS reverse voltage	V <sub>RMS</sub>		14	21	25	28	V
DC blocking voltage	V <sub>DC</sub>		20	30	35	40	V
Operating temperature	Tj		-55 to 150	-55 to 150	-55 to 150	-55 to 150	°C
Storage temperature	T <sub>stg</sub>		-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	MBRT40020(R)	MBRT40030(R)	MBRT40035(R)	MBRT40040(R)	Unit
Average forward current (per pkg)	I <sub>F(AV)</sub>	T <sub>C</sub> =125 °C	400	400	400	400	А
Peak forward surge current (per leg)	I <sub>FSM</sub>	$t_p = 8.3 \text{ ms}, \text{ half sine}$	3000	3000	3000	3000	A
Maximum instantaneous forward voltage (per leg)	V <sub>F</sub>	I <sub>FM</sub> = 200 A, T <sub>j</sub> = 25 °C	0.70	0.70	0.70	0.70	V
Maximum Instantaneous reverse		T <sub>j</sub> = 25 °C	1	1	1	1	
current at rated DC blocking		T <sub>j</sub> = 100 °C	10	10	10	10	mA
voltage (per leg)		T <sub>j</sub> = 150 °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



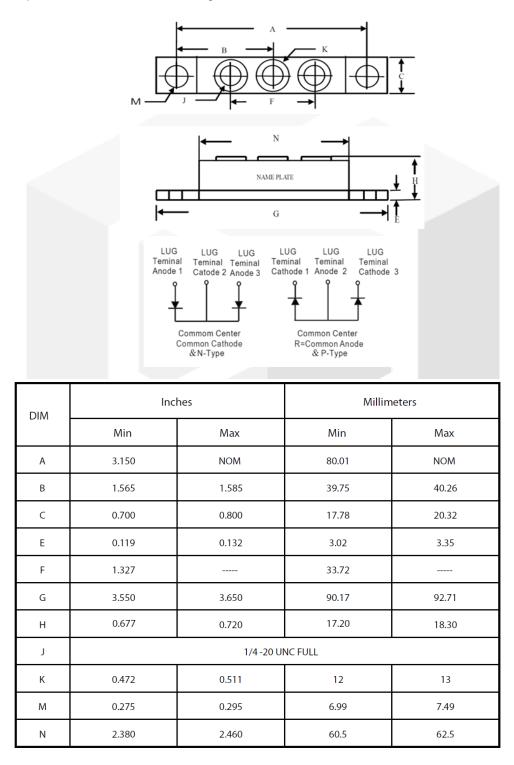
## MBRT40020 thru MBRT40040R





### Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.



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<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						