

# SCHOTTKY BARRIER RECTIFIER

### Absolute Maximum Ratings T<sub>C</sub>=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V <sub>RRM</sub>	Maximum Repetitive Reverse Voltage	45	V
V <sub>R</sub>	Maximum DC Reverse Voltage	45	V
I <sub>F(AV)</sub>	Average Rectified Forward Current @ T <sub>C</sub> = 105°C	20	A
I <sub>FSM</sub>	Non-repetitive Peak Surge Current (per diode) 60Hz Single Half-Sine Wave	150	A
T <sub>J.</sub> T <sub>STG</sub>	Operating Junction and Storage Temperature	-65 to +150	°C

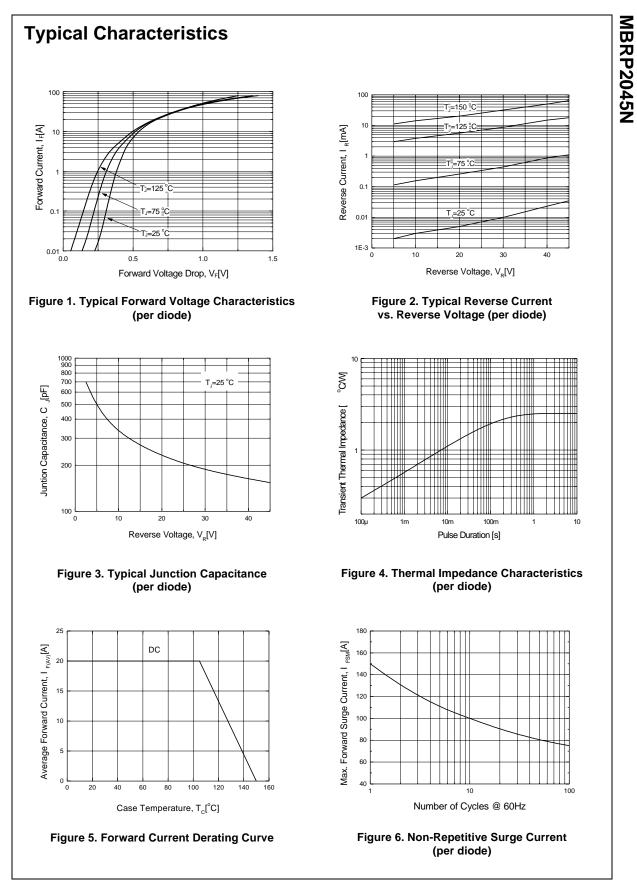
### **Thermal Characteristics**

Symbol	Parameter	Value	Units
$R_{ extsf{ heta}JC}$	Maximum Thermal Resistance, Junction to Case (per diode)	2.5	°C/W

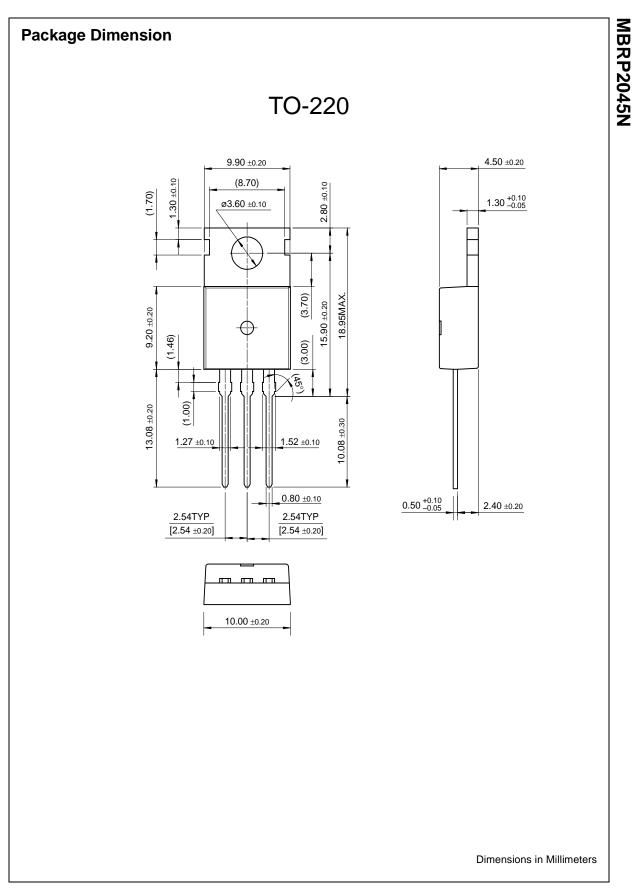
## Electrical Characteristics (per diode)

Symbol	Parameter		Value	Units
V <sub>FM</sub> *	Maximum Instantaneous Forward Voltage			V
	I <sub>F</sub> = 10A	T <sub>C</sub> = 25 °C	0.65	
	$I_F = 10A$	T <sub>C</sub> = 125 °C	0.57	
	$I_F = 20A$	T <sub>C</sub> = 25 °C	0.80	
	I <sub>F</sub> = 20A	$T_{C} = 25 \text{ °C}$ $T_{C} = 125 \text{ °C}$ $T_{C} = 25 \text{ °C}$ $T_{C} = 125 \text{ °C}$	0.65	
I <sub>RM</sub> *	Maximum Instantaneous Reverse Current			mA
	@ rated V <sub>R</sub>	T <sub>C</sub> = 25 °C	1	
		T <sub>C</sub> = 25 °C T <sub>C</sub> = 125 °C	60	

\* Pulse Test: Pulse Width=300µs, Duty Cycle=2%



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CoolFET™	FASTr™	MicroFET™	PowerTrench <sup>®</sup>	SuperSOT™-6
CROSSVOLT™	FRFET™	MicroPak™	QFET <sup>®</sup>	SuperSOT™-8
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EnSigna™	l²C™	OCX™	RapidConfigure™	UHC™
Across the board	. Around the world.™	OCXPro™	RapidConnect™	UltraFET®
The Power Franc	hise™	OPTOLOGIC <sup>®</sup>	SILENT SWITCHER <sup>®</sup>	VCX™
Programmable A	ctive Droop™	OPTOPLANAR™	SMART START™	

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