





**Maximum Ratings and Electrical Characteristics**

( T<sub>c</sub> = 25°C unless otherwise noted )

MAXIMUM RATINGS and ELECTRICAL CHARACTERISTICS(TC=25°C unless otherwise noted)						
PARAMETER	TEST CONDITIONS		SYMBOL	MBRF10200CT	UNIT	
Maximum repetitive peak reverse voltage			VRRM	200	V	
Working peak reverse voltage			VRWM	200	V	
Maximum DC blocking voltage			VDC	200	V	
Maximum average forward rectified current at Tc=105°C total device per diode			IF(AV)	10 5	A	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load per diode			IFSM	125	A	
Peak repetitive reverse current per leg at tp=2.0us , 1KHz			IRRM	0.5	A	
Voltage rate of change (rated VR )			DV/dt	10000	V/us	
Operating junction temperature range			TJ	-55 to+150	°C	
Storage temperature range			TSTG	-55 to+150	°C	
Isolation voltage (TO220F only) from terminal to heatsink t = 1 sec			VAC	1500	V	
Maximum instantaneous forward voltage per leg	IF=5A IF=5A	TC=25°C TC=125°C	VF	0.92 0.82	V	
Maximum reverse current per leg at working peak Reverse voltage			TJ=25°C TJ=100°C	IR	500 7	uA mA

**Thermal Characteristics Ta=25°C unless otherwise noted**

Symbol	Parameter	Max	Unit
RθJC	Thermal Resistance, Junction to Case per Leg	4.0	°C /W
RθJA	Thermal Resistance, Junction to Ambient per Leg	62.5	°C /W

**Note:**

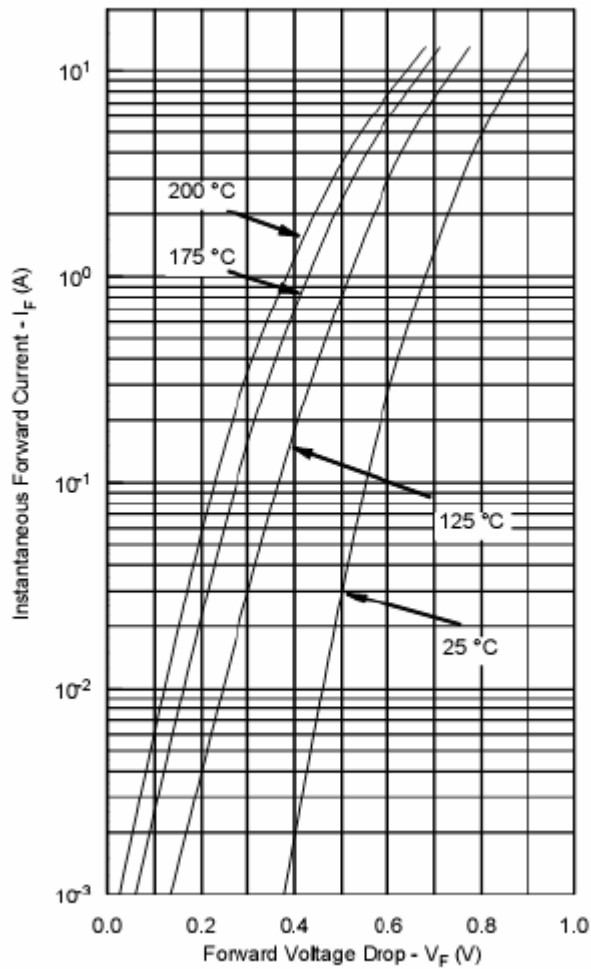
1. Screw mounting with 4-40 screw, where washer diameter is ≤4.9mm(0.19 " )
2. Pulse test:300us pulse width,1% duty cycle



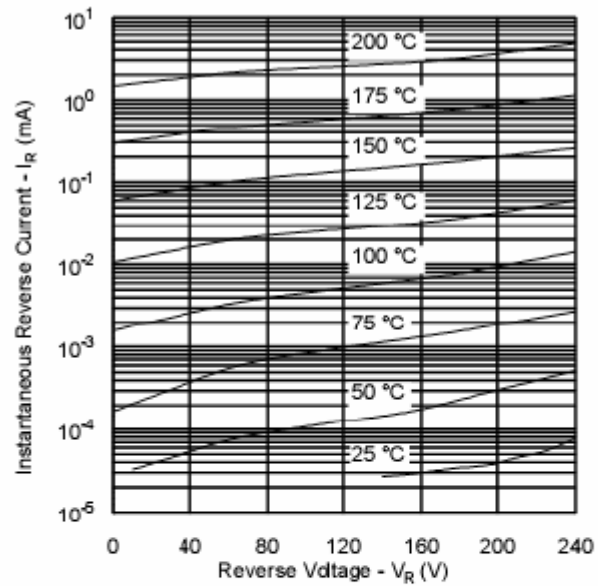
### RATINGS AND CHARACTERISTIC CURVES

( $T_A = 25^\circ\text{C}$  unless otherwise noted)

Typical Forward Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance

