

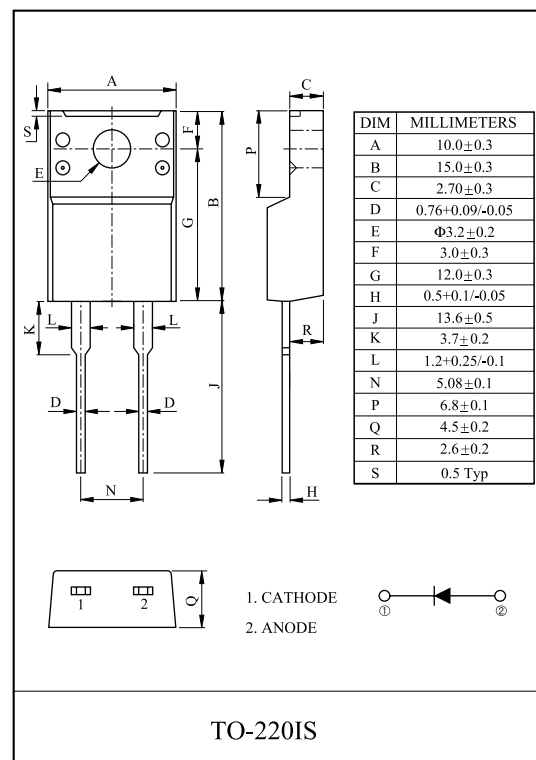
SWITCHING MODE POWER SUPPLY APPLICATION.
CONVERTER & CHOPPER APPLICATION.

FEATURES

- Average Output Rectified Current
: $I_O = 20A$.
- Repetitive Peak Reverse Voltage
: $V_{RRM} = 200V$.
- Fast Reverse Recovery Time : $t_{rr} = 35ns$.

MAXIMUM RATING ($T_a = 25^\circ C$)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	200	V
Average Output Rectified Current	I_O	20	A
Peak One Cycle Surge Forward Current (Non-Repetitive 60Hz)	I_{FSM}	120	A
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

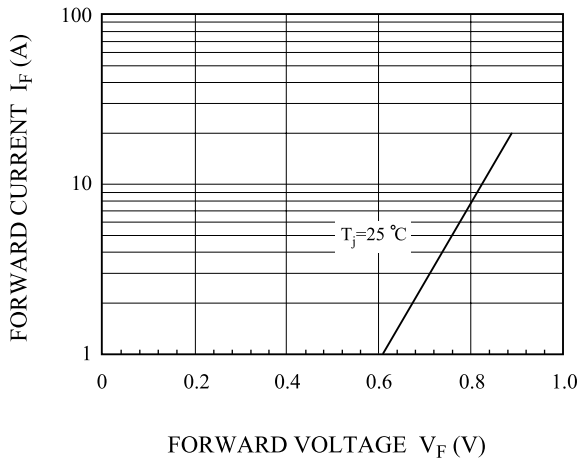


ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ C$)

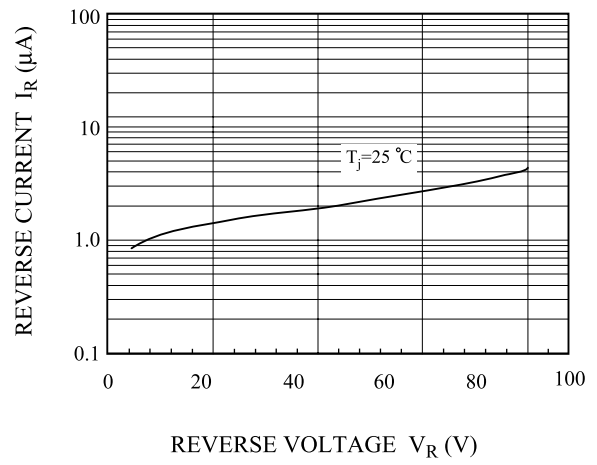
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	V_{FM}	$I_{FM} = 20A$	-	-	0.95	V
Repetitive Peak Reverse Current	I_{RRM}	$V_{RRM} = \text{Rated}$	-	-	100	μA
Reverse Recovery Time	t_{rr}	$I_F = 1.0A, V_R = 30V, di/dt = 50A/\mu s$	-	-	35	ns
Thermal Resistance	$R_{th(j-c)}$	Junction to Case	-	-	3.5	/W

MBRF20U200

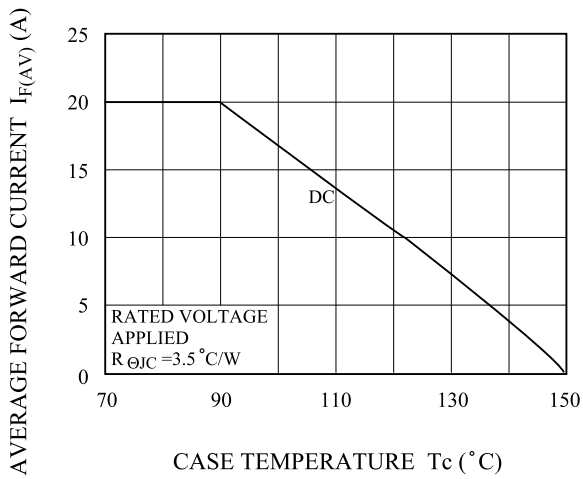
$I_F - V_F$



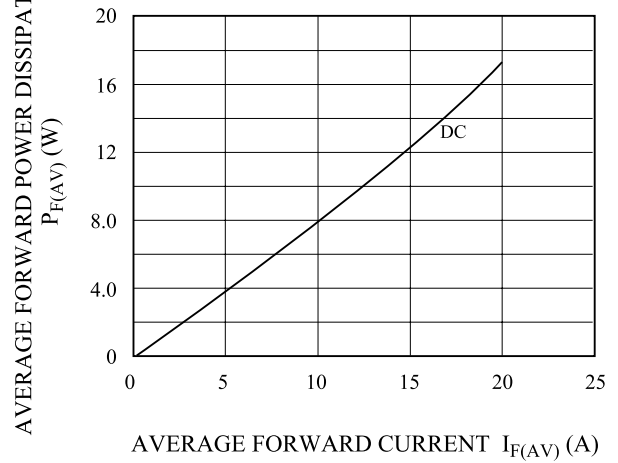
$I_R - V_R$



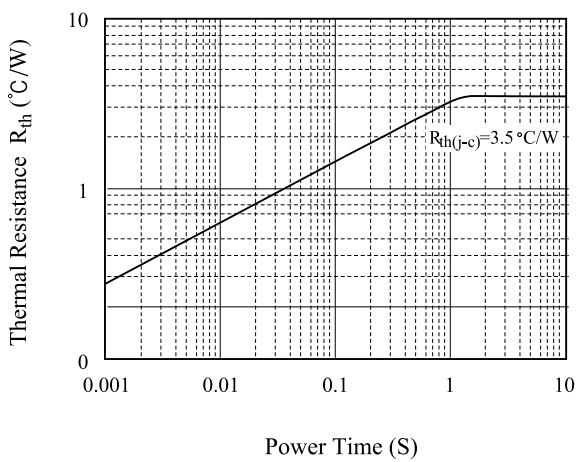
$I_F - T_c$



$P_{F(AV)} - I_{F(AV)}$



$R_{th(J-c)}$



$P_R - V_R$

