

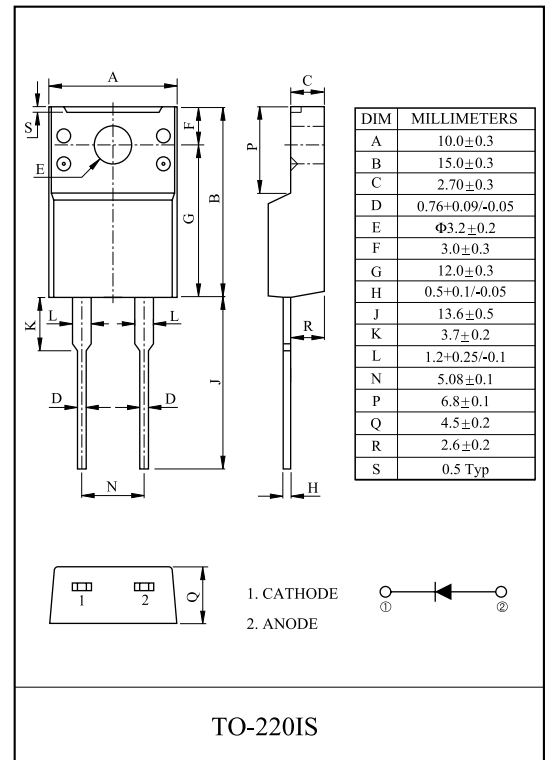
SWITCHING MODE POWER SUPPLY APPLICATION.  
CONVERTER & CHOPPER APPLICATION.

### FEATURES

- Average Output Rectified Current  
:  $I_O = 10A$ .
- Repetitive Peak Reverse Voltage  
:  $V_{RRM} = 200V$ .
- Fast Reverse Recovery Time :  $t_{rr} = 35ns$ .

### MAXIMUM RATING (Ta=25 )

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	$V_{RRM}$	200	V
Average Output Rectified Current	$I_O$	10	A
Peak One Cycle Surge Forward Current (Non-Repetitive 60Hz)	$I_{FSM}$	100	A
Junction Temperature	$T_j$	150	
Storage Temperature Range	$T_{stg}$	-55 150	

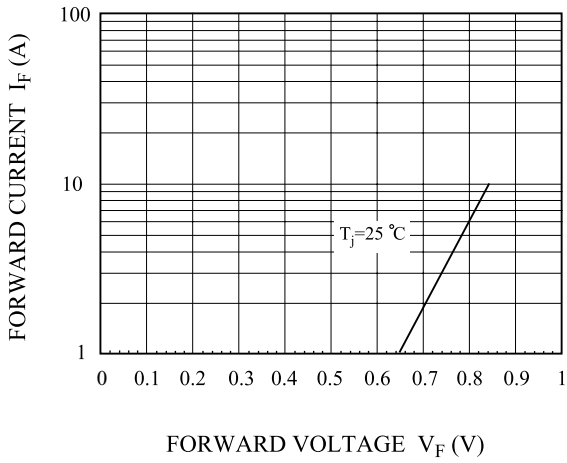


### ELECTRICAL CHARACTERISTICS (Ta=25 )

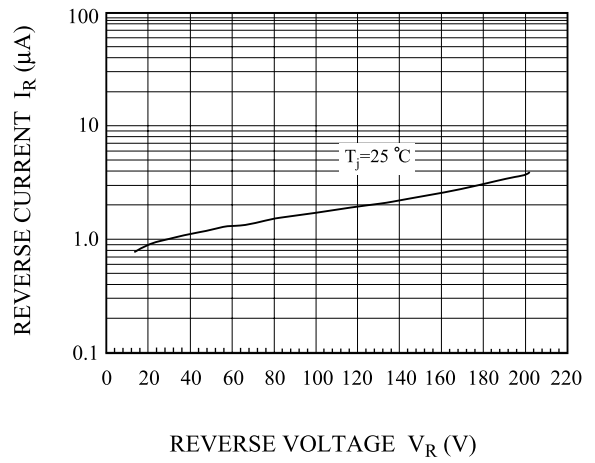
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	$V_{FM}$	$I_{FM} = 10A$	-	-	0.95	V
Repetitive Peak Reverse Current	$I_{RRM}$	$V_{RRM} = \text{Rated}$	-	-	100	μA
Reverse Recovery Time	$t_{rr}$	$I_F = 1.0A, V_R = 30V, di/dt = 50A/us$	-	-	35	ns
Thermal Resistance	$R_{th(j-c)}$	Junction to Case	-	-	4.5	/W

# MBRF10U200

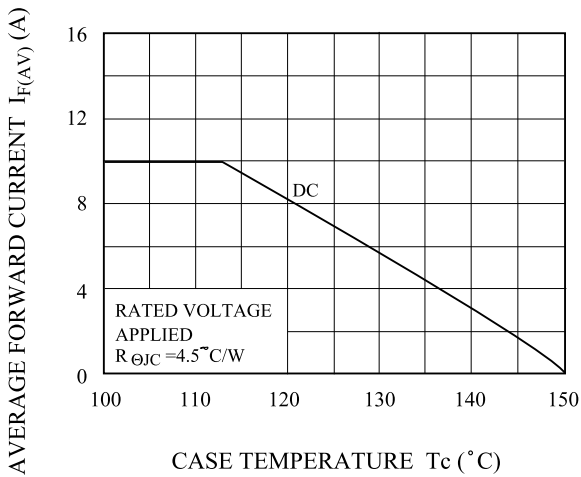
$I_F - V_F$



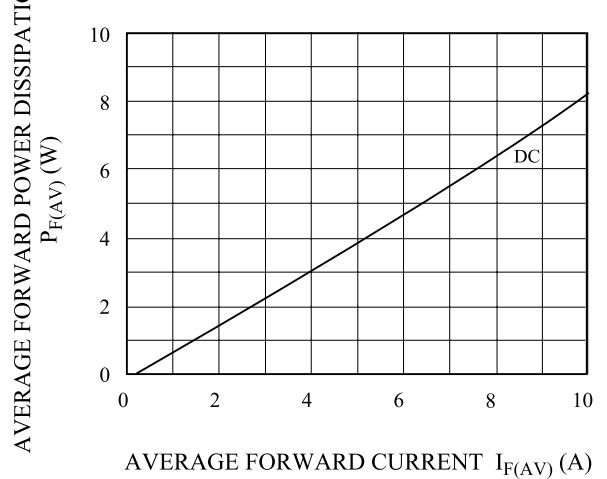
$I_R - V_R$



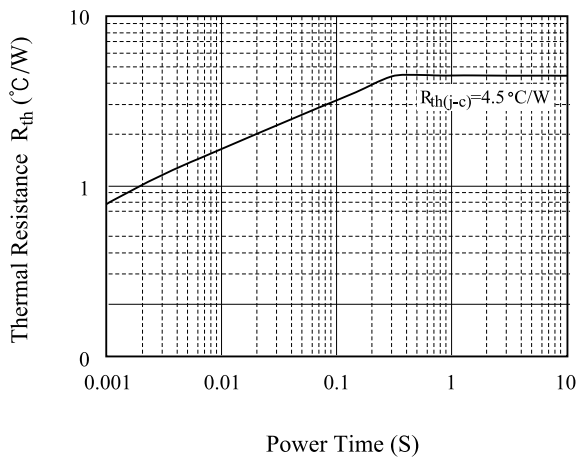
$I_F - T_c$



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



$R_{th(j-c)}$



$P_R - V_R$

