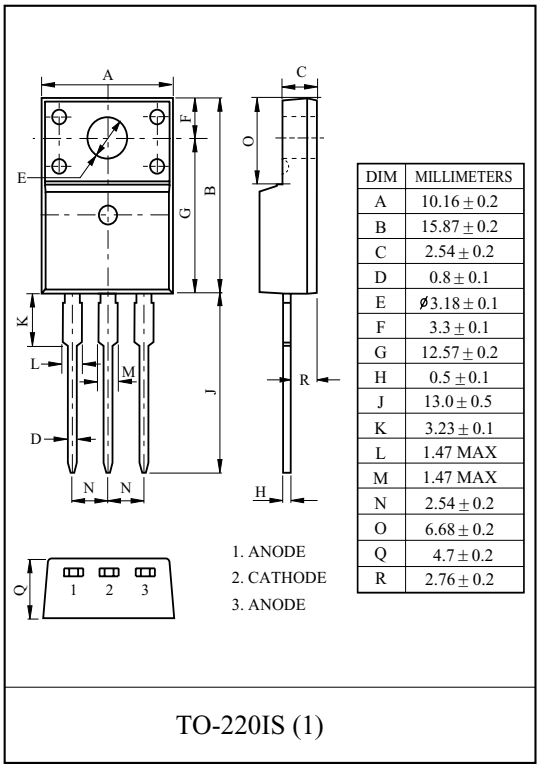
MBRF10U200CTA

SCHOTTKY BARRIER TYPE DIODE

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.



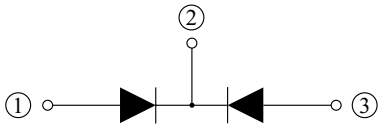
DIM	MILLIMETERS
A	10.16 ± 0.2
B	15.87 ± 0.2
C	2.54 ± 0.2
D	0.8 ± 0.1
E	ø3.18 ± 0.1
F	3.3 ± 0.1
G	12.57 ± 0.2
H	0.5 ± 0.1
J	13.0 ± 0.5
K	3.23 ± 0.1
L	1.47 MAX
M	1.47 MAX
N	2.54 ± 0.2
O	6.68 ± 0.2
Q	4.7 ± 0.2
R	2.76 ± 0.2

TO-220IS (1)

MAXIMUM RATING (Ta=25℃)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	200	V
Average Output Rectified Current (Tc=118℃) (Note)	I_O	10	A
Peak One Cycle Surge Forward Current (Non-Repetitive 60Hz)	I_{FSM}	100	A
Junction Temperature	T_j	-40 150	℃
Storage Temperature Range	T_{stg}	-55 150	℃

Note : average forward current of centertap full wave connection.

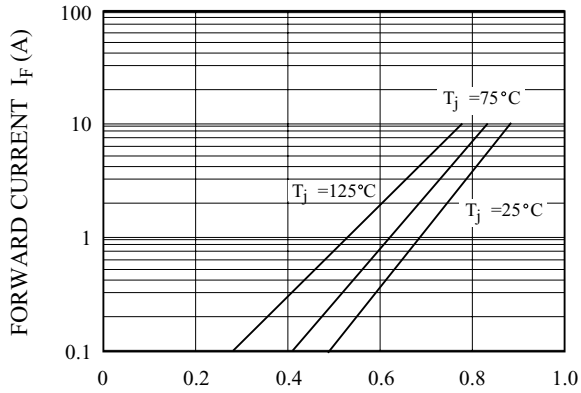


ELECTRICAL CHARACTERISTICS (Ta=25℃)

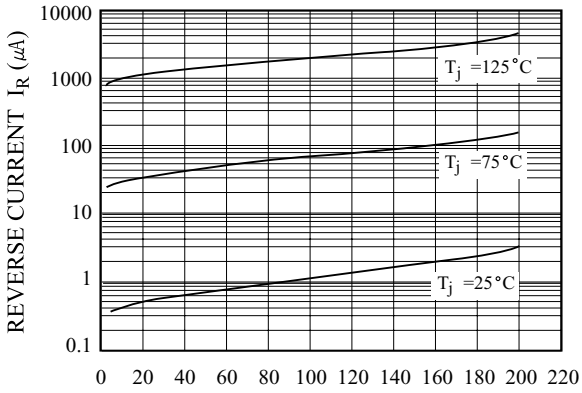
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	(Note)	V_{FM}	I_{FM}=5A	-	-	0.95	V
Repetitive Peak Reverse Current	(Note)	I_{RRM}	V_{RRM}=Rated	-	-	50	μA
Reverse Recovery Time	(Note)	t_{rr}	I_F=1.0A, di/dt=-30A/μs	-	-	35	ns
Thermal Resistance	(Note)	$R_{th(j-c)}$	Juction to Case	-	-	4.5	℃/W

Note : A value of one cell

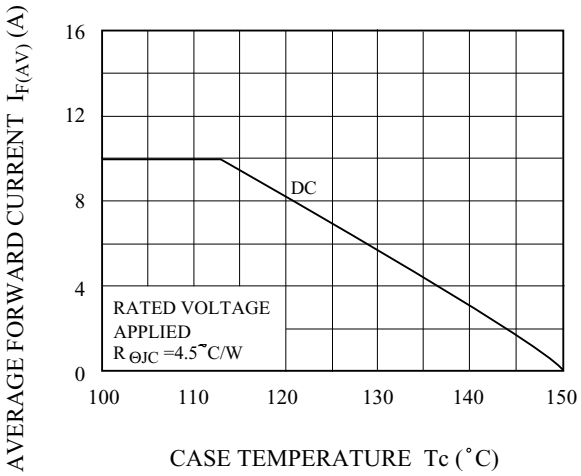
I_F - V_F



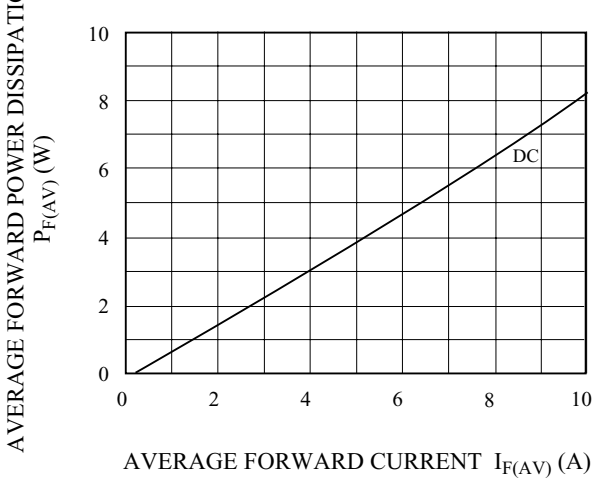
I_R - V_R



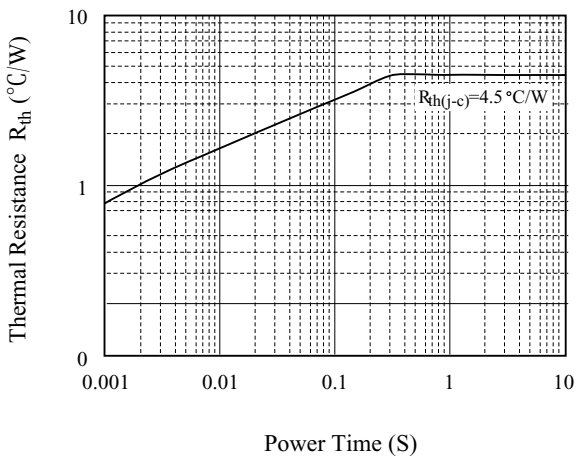
I_F - T_C



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



$R_{th(J-c)}$



P_R - V_R

