MBRF560CT

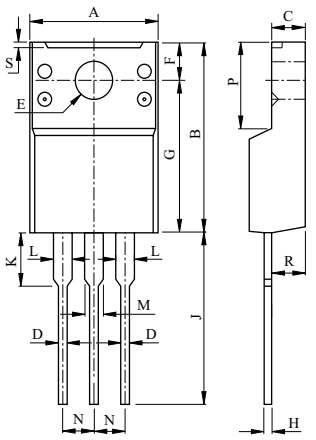
SCHOTTKY BARRIER TYPE DIODE

SWITCHING TYPE POWER SUPPLY APPLICATION.
CONVERTER & CHOPPER APPLICATION.

TENTATIVE

FEATURES

- Average Output Rectified Current
  : I_O=5A (Tc=117℃).
- Repetitive Peak Reverse Voltage
  : V_{RRM}=60V.
- Fast Reverse Recovery Time : t_{rr}=35ns.



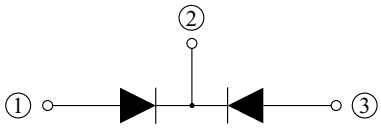
DIM	MILLIMETERS
A	10.0±0.3
B	15.0±0.3
C	2.70±0.3
D	0.76+0.09/-0.05
E	Φ3.2±0.2
F	3.0±0.3
G	12.0±0.3
H	0.5+0.1/-0.05
J	13.6±0.5
K	3.7±0.2
L	1.2+0.25/-0.1
M	1.5+0.25/-0.1
N	2.54±0.1
P	6.8±0.1
Q	4.5±0.2
R	2.6±0.2
S	0.5 Typ

TO-220IS

MAXIMUM RATING (Ta=25℃)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	60	V
Average Output Rectified Current (Tc=117℃) (V_R) (Note)	I_O	5	A
Peak One Cycle Surge Forward Current (Non-Repetitive 60Hz)	I_{FSM}	70	A
Junction Temperature	T_j	-40～150	℃
Storage Temperature Range	T_{stg}	-55～150	℃

Note : average forward current of centertap full wave connection.

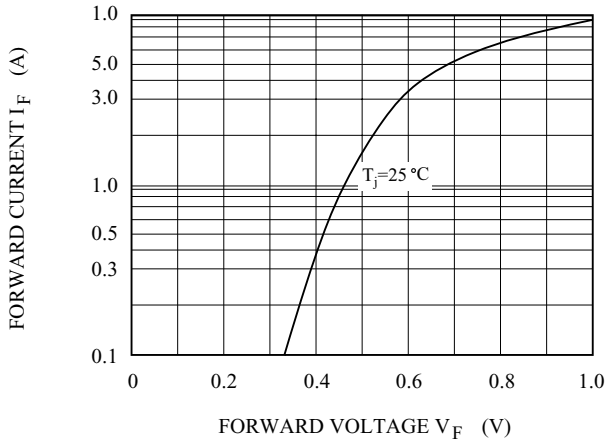


ELECTRICAL CHARACTERISTICS (Ta=25℃)

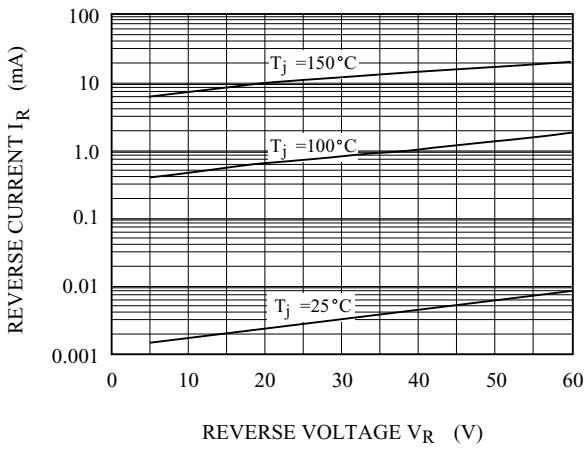
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	(Note)	V_{FM}	I_{FM}=2.5A	-	-	0.75	V
Repetitive Peak Reverse Current	(Note)	I_{RRM}	V_{RRM}=Rated	-	-	150	μA
Reverse Recovery Time	(Note)	t_{rr}	I_F=1.0A, di/dt=-30A/μs	-	-	35	ns
Thermal Resistance	(Note)	$R_{th(j-c)}$	Juction to Case	-	-	4.0	℃/W

Note : A value of one cell

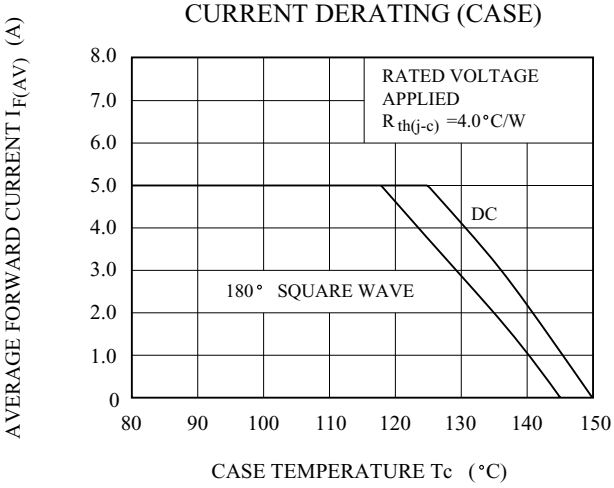
I_F - V_F



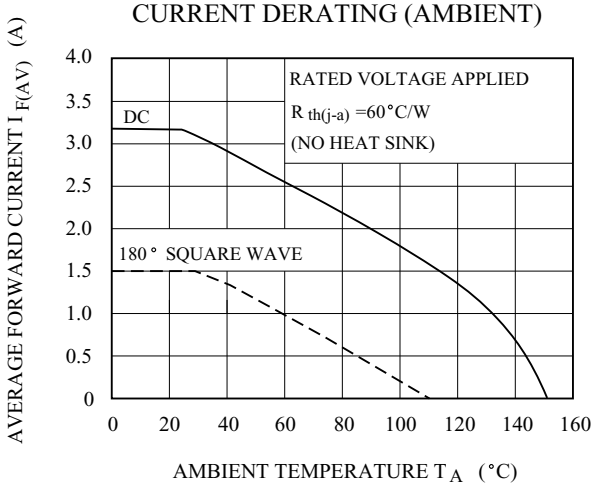
I_R - V_R



CURRENT DERATING (CASE)



CURRENT DERATING (AMBIENT)



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

