

SWITCHING TYPE POWER SUPPLY APPLICATION.  
CONVERTER & CHOPPER APPLICATION.

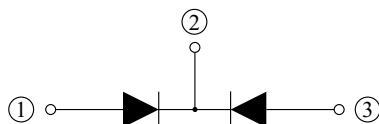
### FEATURES

- Average Output Rectified Current  
:  $I_O=30A$ .
- Repetitive Peak Reverse Voltage  
:  $V_{RRM}=100V$ .
- Fast Reverse Recovery Time :  $t_{rr}=35ns$ .

### MAXIMUM RATING (Ta=25℃)

| CHARACTERISTIC                                             | SYMBOL    | RATING    | UNIT |
|------------------------------------------------------------|-----------|-----------|------|
| Repetitive Peak Reverse Voltage                            | $V_{RRM}$ | 100       | V    |
| Average Output Rectified Current (Note)                    | $I_O$     | 30        | A    |
| Peak One Cycle Surge Forward Current (Non-Repetitive 60Hz) | $I_{FSM}$ | 350       | A    |
| Junction Temperature                                       | $T_j$     | -40 ~ 150 | ℃    |
| Storage Temperature Range                                  | $T_{stg}$ | -55 ~ 150 | ℃    |

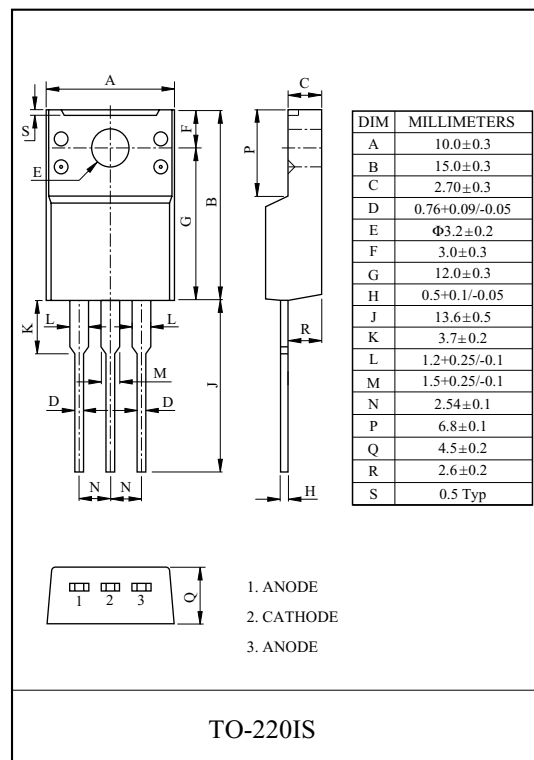
Note : average forward current of centertap full wave connection.



### ELECTRICAL CHARACTERISTICS (Ta=25℃)

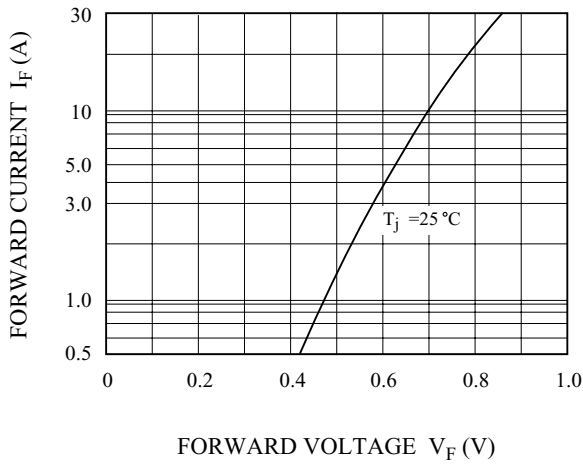
| CHARACTERISTIC                         | SYMBOL        | TEST CONDITION                  | MIN. | TYP. | MAX. | UNIT    |
|----------------------------------------|---------------|---------------------------------|------|------|------|---------|
| Peak Forward Voltage (Note)            | $V_{FM}$      | $I_{FM}=15A$                    | -    | -    | 0.85 | V       |
| Repetitive Peak Reverse Current (Note) | $I_{RRM}$     | $V_{RRM}=\text{Rated}$          | -    | -    | 150  | $\mu A$ |
| Reverse Recovery Time (Note)           | $t_{rr}$      | $I_{FM}=1.0A, di/dt=-30A/\mu s$ | -    | -    | 35   | ns      |
| Thermal Resistance (Note)              | $R_{th(j-c)}$ | Juction to Case                 | -    | -    | 2.5  | ℃/W     |

Note : A value of one cell

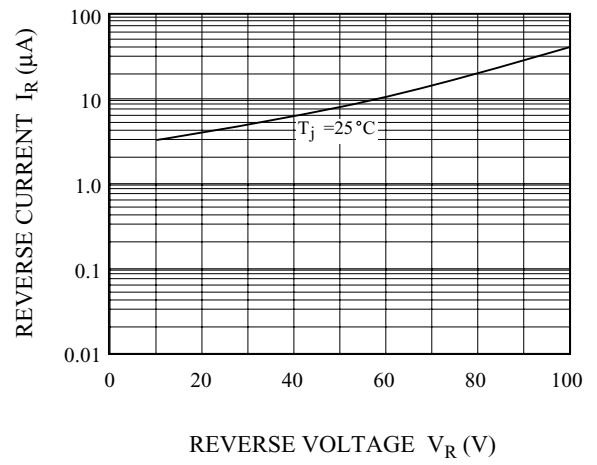


# MBRF30100CT

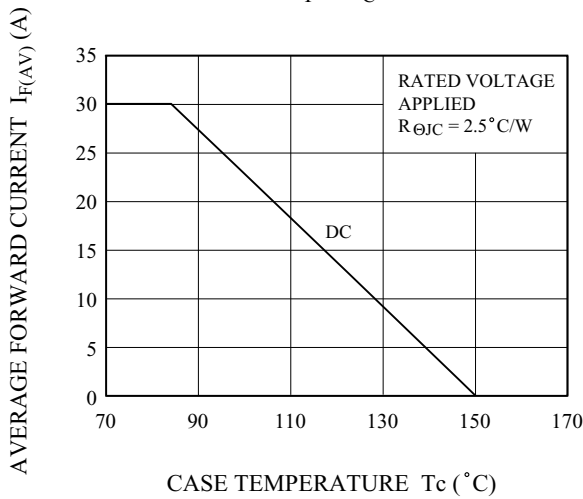
$I_F - V_F$



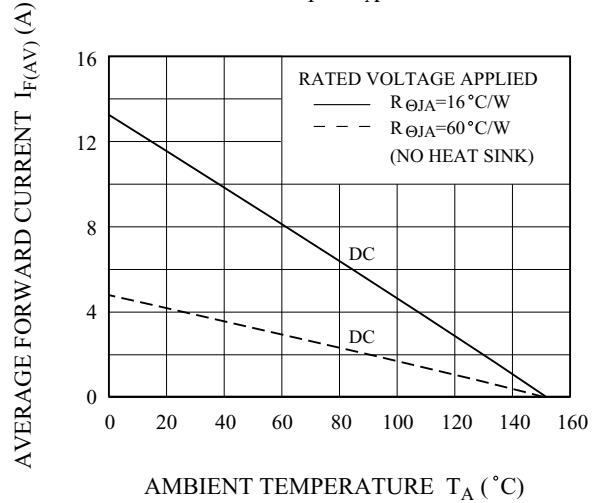
$I_R - V_R$



$I_F - T_C$



$I_F - T_A$



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

