

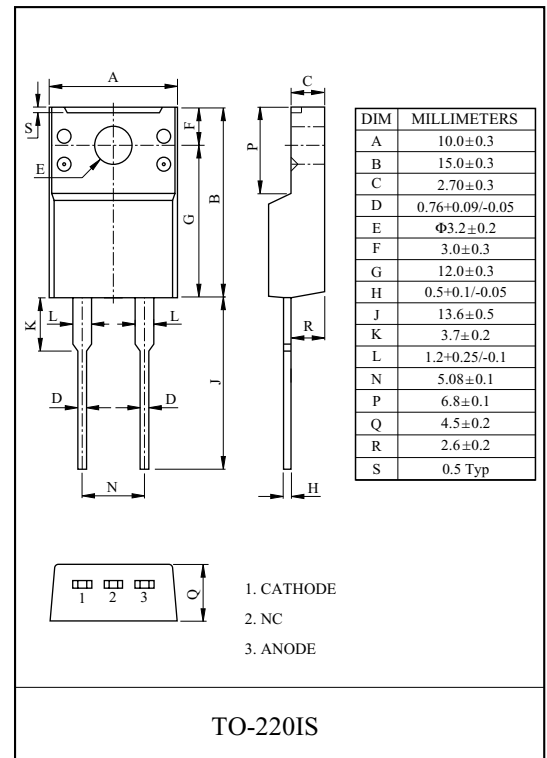
SWITCHING TYPE POWER SUPPLY APPLICATION.
CONVERTER & CHOPPER APPLICATION.

FEATURES

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

MAXIMUM RATING (Ta=25 °C)

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|------------------------------------------------------------|-----------|---------|------|
| Repetitive Peak Reverse Voltage | V_{RRM} | 60 | V |
| Average Output Rectified Current | I_O | 5 | A |
| Peak One Cycle Surge Forward Current (Non-Repetitive 60Hz) | I_{FSM} | 100 | A |
| Junction Temperature | T_j | -40~150 | °C |
| Storage Temperature Range | T_{stg} | -55~150 | °C |

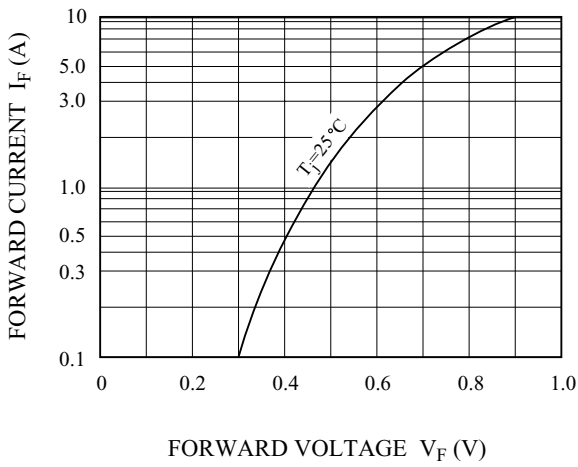


ELECTRICAL CHARACTERISTICS (Ta=25 °C)

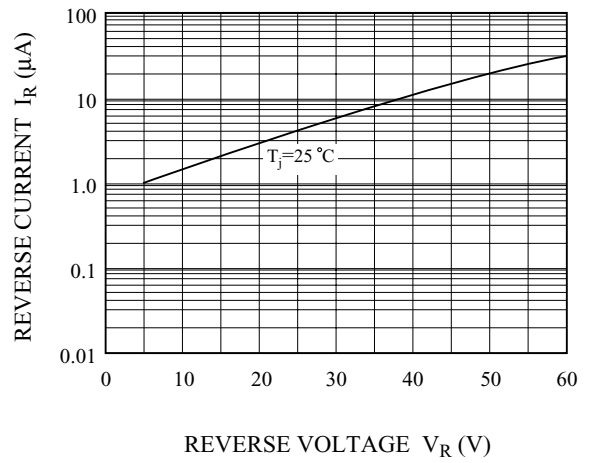
| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|---------------------------------|---------------|------------------------------|------|------|------|------|
| Peak Forward Voltage | V_{FM} | $I_{FM}=5A$ | - | - | 0.75 | V |
| Repetitive Peak Reverse Current | I_{RRM} | $V_{RRM}=\text{Rated}$ | - | - | 150 | μA |
| Reverse Recovery Time | t_{rr} | $I_F=1.0A, di/dt=-30A/\mu s$ | - | - | 35 | ns |
| Thermal Resistance | $R_{th(j-c)}$ | Juction to Case | - | - | 4.5 | °C/W |

MBRF560

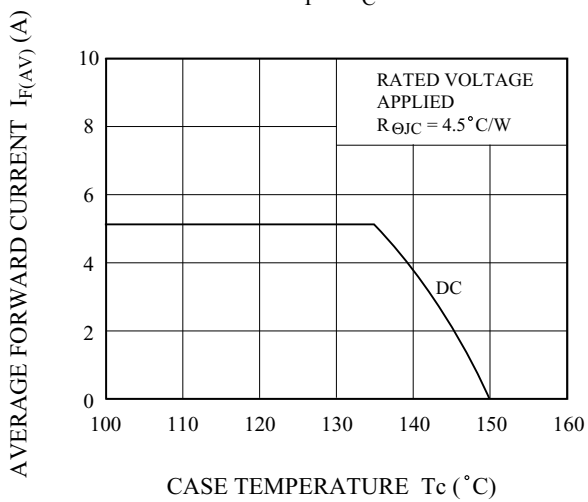
$I_F - V_F$



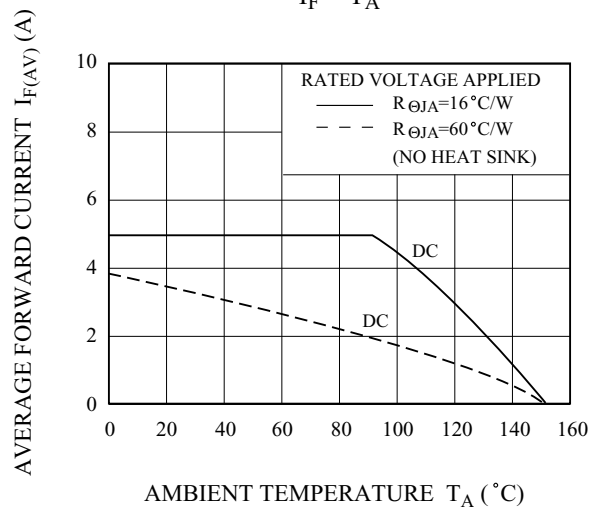
$I_R - V_R$



$I_F - T_C$



$I_F - T_A$



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

