

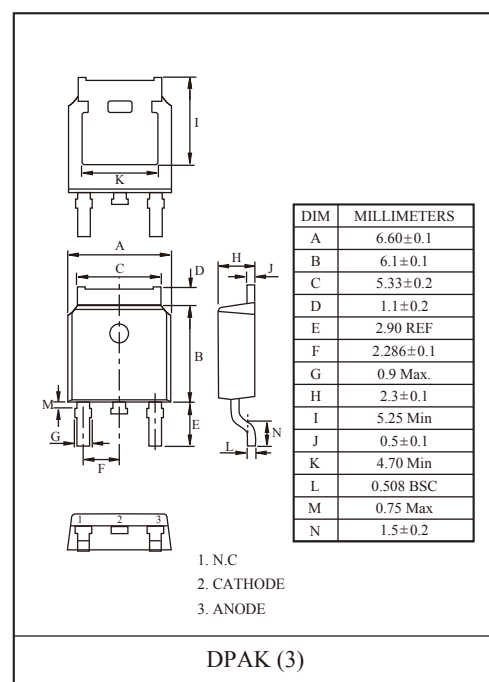
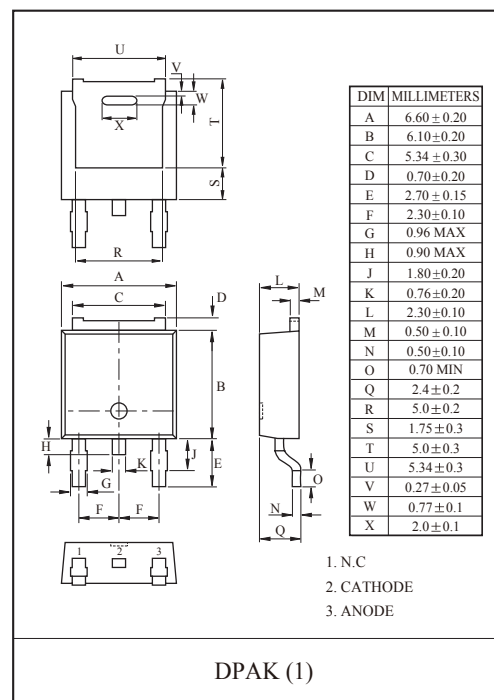
SWITCHING MODE POWER SUPPLY APPLICATION.  
CONVERTER & CHOPPER APPLICATION.

### FEATURES

- Average Output Rectified Current  
:  $I_O=10A$ .
- Repetitive Peak Reverse Voltage  
:  $V_{RRM}=150V$ .
- Suffix U : Qualified to AEC-Q101.  
ex) MBRD10U150-RTF/HU

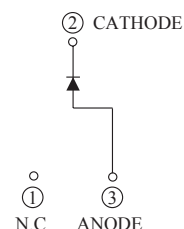
### MAXIMUM RATINGS (Ta=25℃)

| CHARACTERISTIC                                             | SYMBOL    | RATING    | UNIT |
|------------------------------------------------------------|-----------|-----------|------|
| Repetitive Peak Reverse Voltage                            | $V_{RRM}$ | 150       | V    |
| Average Output Rectified Current (Tc=114℃)                 | $I_O$     | 10        | A    |
| Peak One Cycle Surge Forward Current (Non-Repetitive 60Hz) | $I_{FSM}$ | 150       | A    |
| Junction Temperature                                       | $T_j$     | 150       | ℃    |
| Storage Temperature Range                                  | $T_{stg}$ | -55 ~ 150 | ℃    |



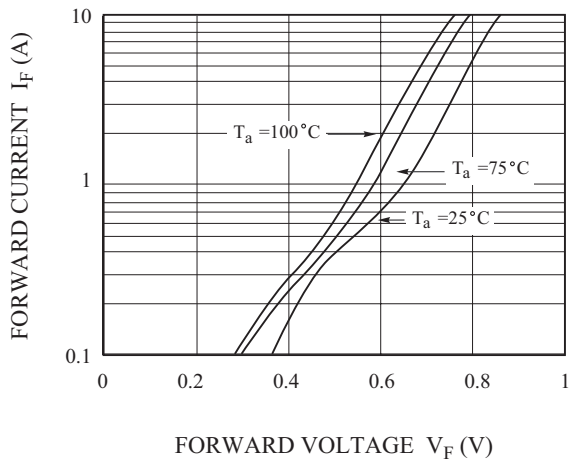
### ELECTRICAL CHARACTERISTICS (Ta=25℃)

| CHARACTERISTIC                  | SYMBOL        | TEST CONDITION  | MIN. | TYP. | MAX. | UNIT |
|---------------------------------|---------------|-----------------|------|------|------|------|
| Peak Forward Voltage            | $V_{FM}$      | $I_{FM}=10A$    | -    | -    | 0.9  | V    |
| Repetitive Peak Reverse Current | $I_{RRM}$     | $V_{RRM}=150V$  | -    | -    | 100  | μA   |
| Thermal Resistance              | $R_{th(j-c)}$ | Juction to Case | -    | -    | 5    | ℃/W  |

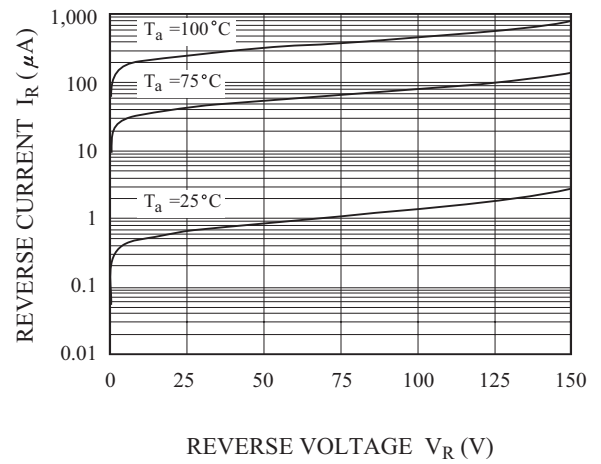


# MBRD10U150

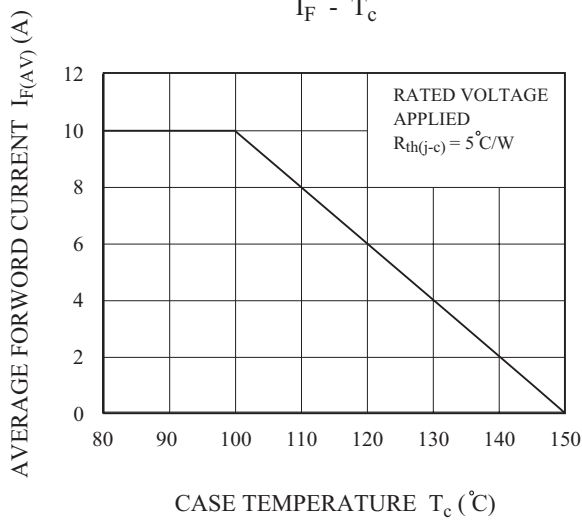
$I_F - V_F$



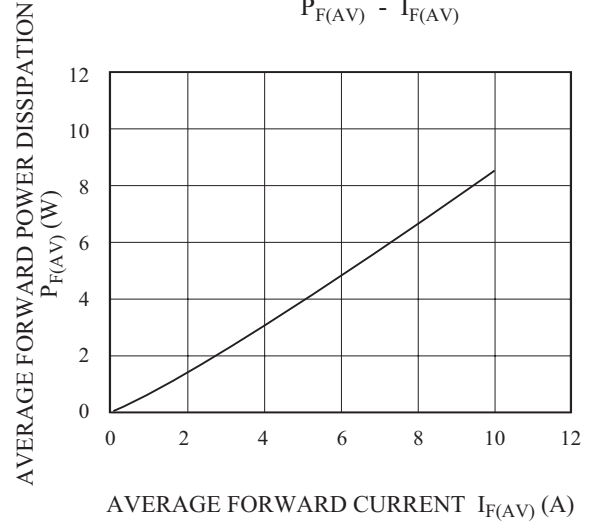
$I_R - V_R$



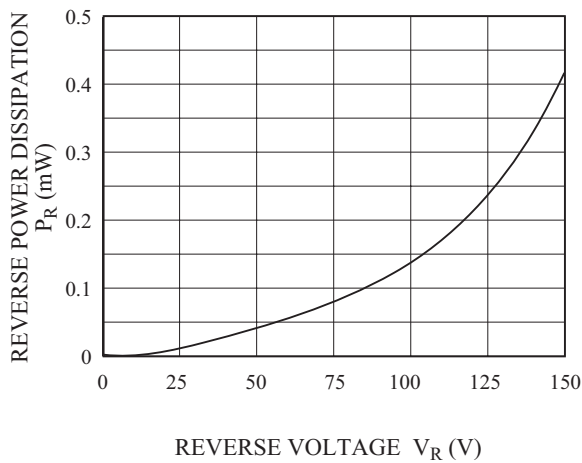
$I_F - T_c$



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



$P_R - V_R$



$R_{th(j-c)}$

