

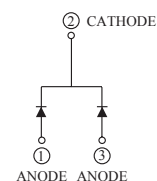
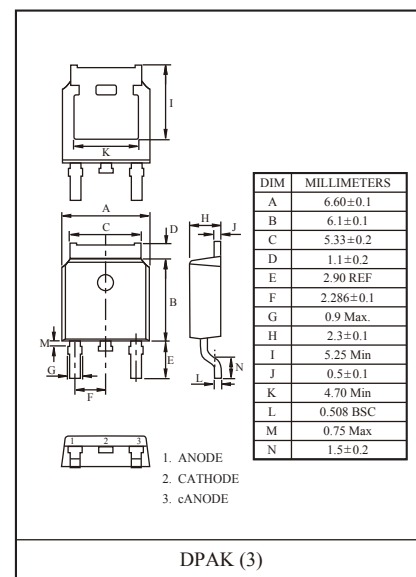
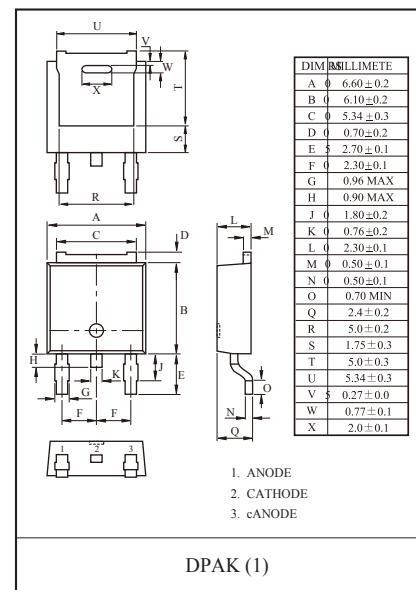
### SWITCHING MODE POWER SUPPLY APPLICATION. CONVERTER & CHOPPER APPLICATION.

#### FEATURES

- Average Output Rectified Current  
:  $I_O=20A$ .
- Repetitive Peak Reverse Voltage  
:  $V_{RRM}=100V$ .
- Low Forward Voltage.
- Low Reverse Current.
- Molding Compound Flammability Rating : UL 94V-0
- Pb-Free, Halogen-Free, RoHs Compliant

#### MAXIMUM RATINGS (Ta=25℃)

| CHARACTERISTIC                                             | SYMBOL    | RATING    | UNIT |
|------------------------------------------------------------|-----------|-----------|------|
| Repetitive Peak Reverse Voltage                            | $V_{RRM}$ | 100       | V    |
| Average Output Rectified Current                           | $I_O$     | 20        | 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 | ℃    |



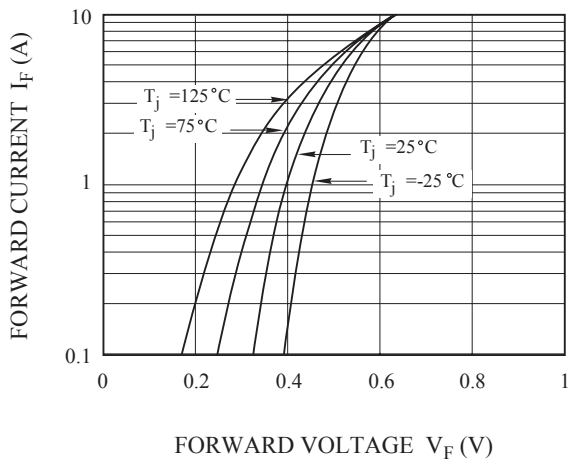
#### ELECTRICAL CHARACTERISTICS (Ta=25℃)

| CHARACTERISTIC                         | SYMBOL        | TEST CONDITION  | MIN. | TYP. | MAX. | UNIT |
|----------------------------------------|---------------|-----------------|------|------|------|------|
| Peak Forward Voltage (Note)            | $V_F$         | $I_F=1A$        | -    | 0.41 | -    | V    |
|                                        |               | $I_F=10A$       | -    | 0.71 | 0.75 |      |
| Repetitive Peak Reverse Current (Note) | $I_R$         | $V_R=100V$      | -    | 10   | 100  | μA   |
| Thermal Resistance (Note)              | $R_{th(j-c)}$ | Juction to Case | -    | -    | 6    | ℃/W  |

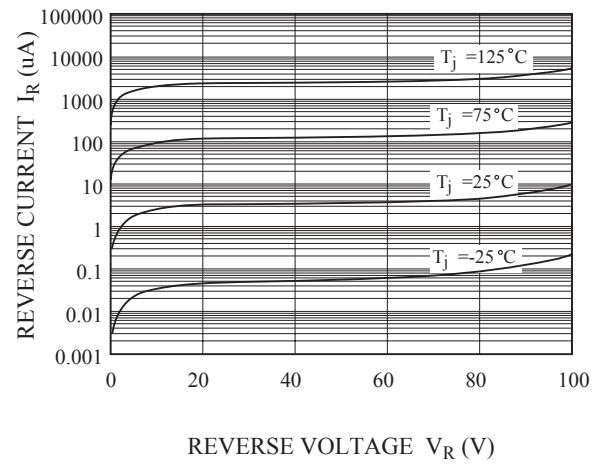
Note : A value of one cell

# TMBRD20100CT

$I_F - V_F$



$I_R - V_R$



$C_T - V_R$

