

■ **Features**

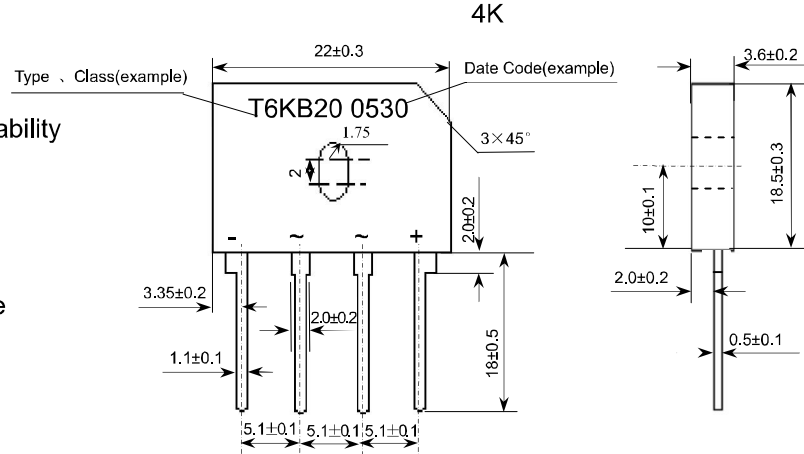
- I_o 6.0A
- V_{RRM} 200V~800V
- Glass passivated chip
- High surge forward current capability

■ **Applications**

- General purpose 1 phase Bridge rectifier applications

Outline Dimensions and Mark

Unit: mm



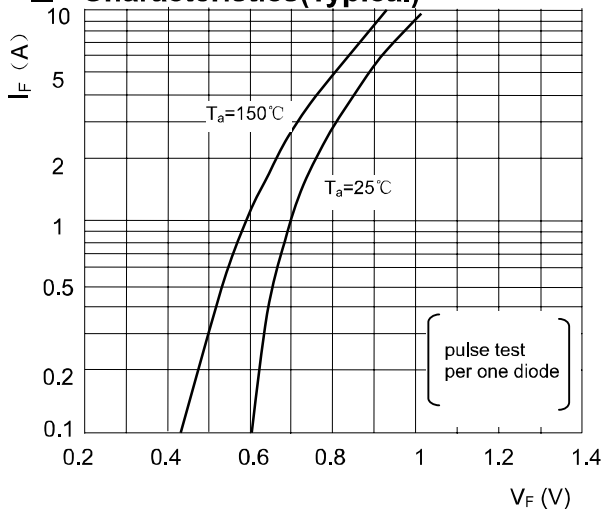
■ **Limiting Values (Absolute Maximum Rating)**

| Item | Symbol | Unit | Conditions | T6KB | | | |
|--------------------------------------|-----------|------------------|---|--------------------------------------|-----|-----|-----|
| | | | | 20 | 40 | 60 | 80 |
| Storage Temperature | T_{stg} | °C | | -40 ~ +150 | | | |
| Junction Temperature | T_j | °C | | +150 | | | |
| Repetitive Peak Reverse Voltage | V_{RRM} | V | | 200 | 400 | 600 | 800 |
| Average Rectified Output Current | I_o | A | 50Hz sine wave, R-load, | With Heatsink $T = 110^{\circ}C$ | | | |
| | | | | Without Heatsink $T_a = 25^{\circ}C$ | | | |
| Surge(Non-repetitive)Forward Current | I_{FSM} | A | 50Hz sine wave, 1 cycle, $T_a = 25^{\circ}C$ | | | | |
| Current Squared Time | I^2t | A ² s | 1ms ≤ t < 8.3ms $T_j = 25^{\circ}C$, Rating of per diode | | | | |
| Dielectric Strength | Vdis | kV | Terminals to case, AC 1 minute | | | | |
| Mounting Torque | TOR | kg · cm | Recommend torque: 5kg · cm | | | | |

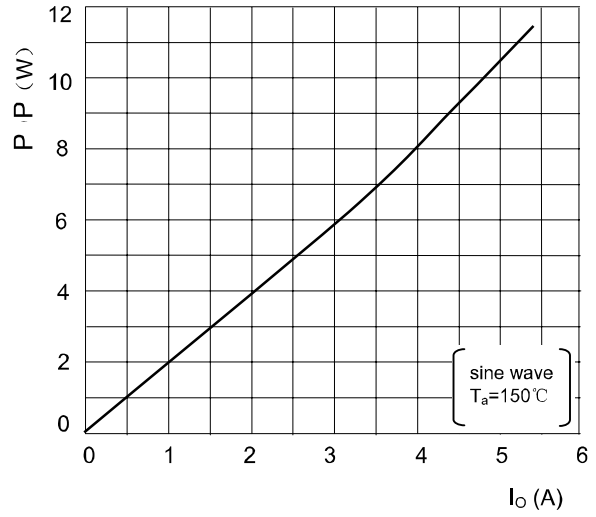
■ **Electrical Characteristics** ($T_a = 25^{\circ}C$ Unless otherwise specified)

| Item | Symbol | Unit | Test Condition | Max |
|----------------------|------------------|------|--|-----|
| Peak Forward Voltage | V_{FM} | V | $I_{FM} = 6.0A$, Pulse measurement, Rating of per diode | 1.0 |
| Peak Reverse Current | I_{RRM1} | μA | $V_{RM} = V_{RRM}$, Pulse measurement, Rating of per diode, | 5 |
| Thermal Resistance | $R_{\theta J-A}$ | °C/W | Between junction and ambient, Without heatsink | 22 |
| | $R_{\theta J-L}$ | | Between junction and lead, Without heatsink | 4 |
| | $R_{\theta J-C}$ | | Between junction and case, With heatsink | 5 |

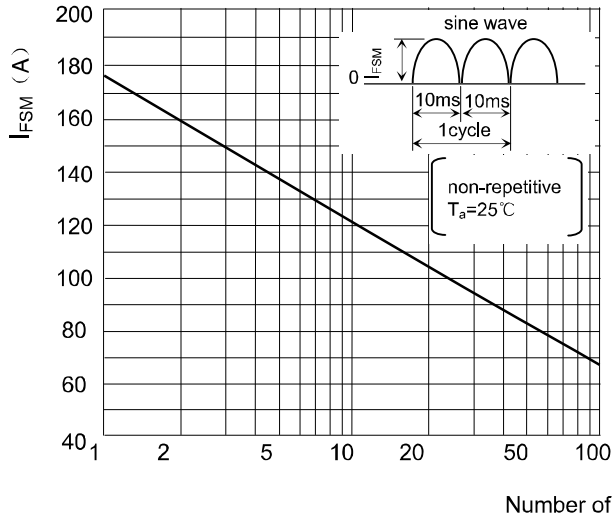
Characteristics(Typical)



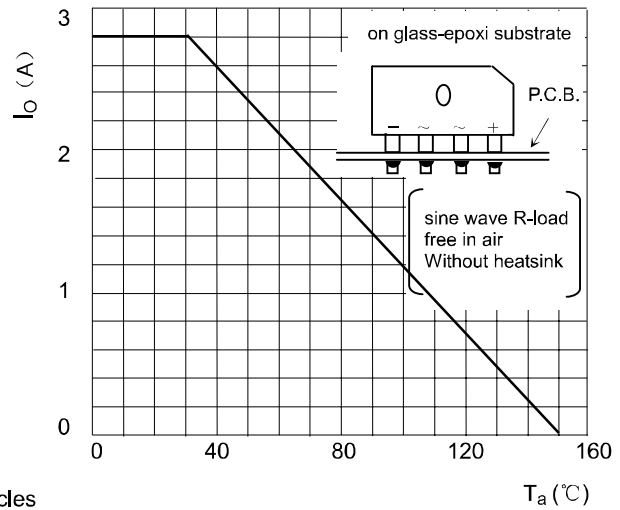
Forward Characteristics



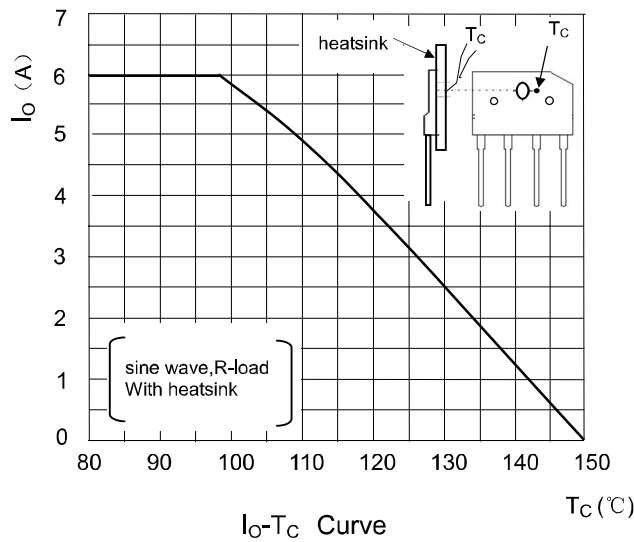
P-I_o Curve



Surge Forward Current Capability



I_o-T_a Curve



I_o-T_c Curve