

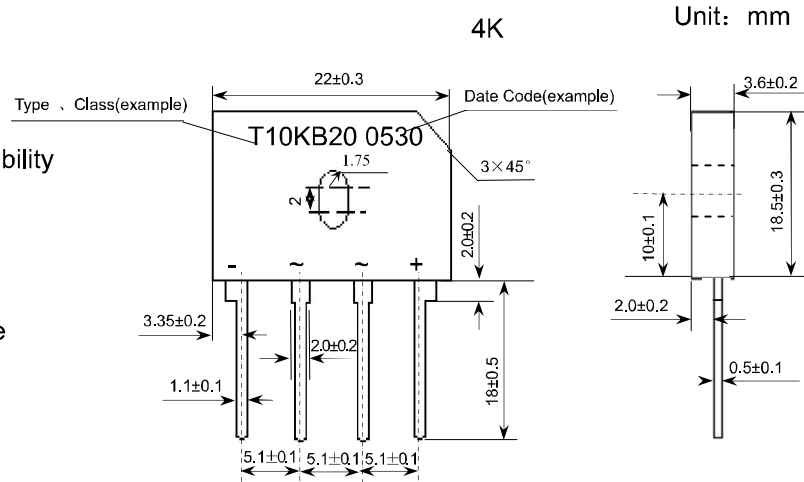
■ **Features**

- $I_o$  10.0A
- $V_{RRM}$  200V~800V
- Glass passivated chip
- High surge forward current capability

■ **Applications**

- General purpose 1 phase Bridge rectifier applications

**Outline Dimensions and Mark**



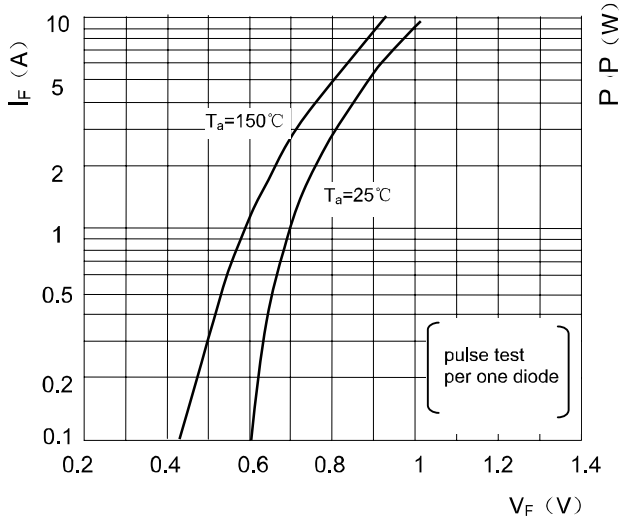
■ **Limiting Values (Absolute Maximum Rating)**

Item	Symbol	Unit	Conditions	T10KB			
				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 $T_c=100^\circ\text{C}$			
				10.0			
				Without heatsink $T_a=25^\circ\text{C}$			
				3.6			
Surge(Non-repetitive)Forward Current	$I_{FSM}$	A	50Hz sine wave, 1 cycle, $T_a=25^\circ\text{C}$	200			
Current Squared Time	$I^2t$	A <sup>2</sup> s	$1\text{ms} \leq t < 10\text{ms}$ $T_j=25^\circ\text{C}$ , Rating of per diode	166			
Dielectric Strength	$V_{dis}$	kV	Terminals to case, AC 1 minute	2			
Mounting Torque	TOR	kg · cm	Recommend torque: 5kg · cm	8			

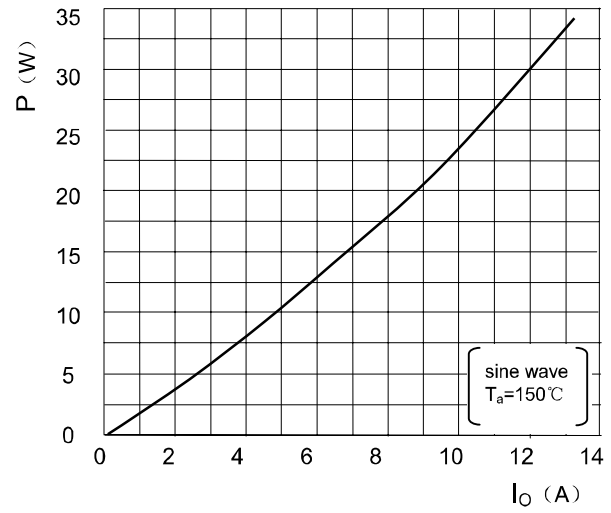
■ **Electrical Characteristics** ( $T_a=25^\circ\text{C}$  Unless otherwise specified)

Item	Symbol	Unit	Test Condition	Max
Peak Forward Voltage	$V_{FM}$	V	$I_{FM}=10.0\text{A}$ , Pulse measurement, Rating of per diode	1.1
Peak Reverse Current	$I_{RRM1}$	μ A	$V_{RM}=V_{RRM}$ , Pulse measurement, Rating of per diode,	5
Thermal Resistance	$R_{\theta J-A}$	°C/W	Between junction and ambient, Without heatsink	21
	$R_{\theta J-L}$		Between junction and lead, Without heatsink	4
	$R_{\theta J-C}$		Between junction and case, With heatsink	4.8

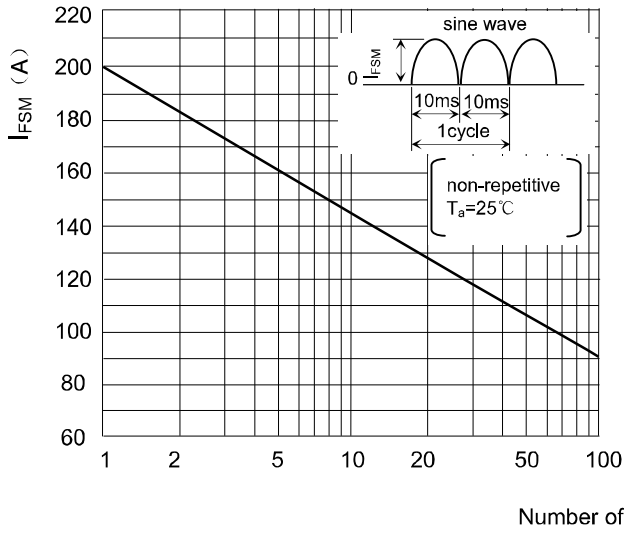
■ Characteristics(Typical)



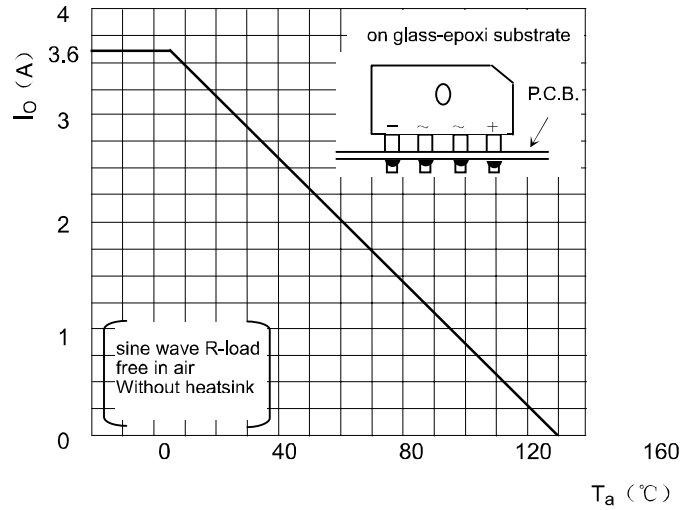
Forward Characteristics



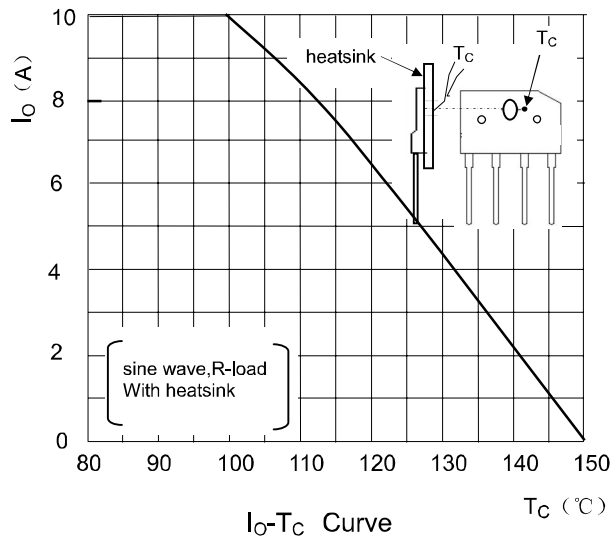
P-I<sub>o</sub> Curve



Surge Forward Current Capability



I<sub>o</sub>-T<sub>a</sub> Curve



I<sub>o</sub>-T<sub>c</sub> Curve