

### ■ Features

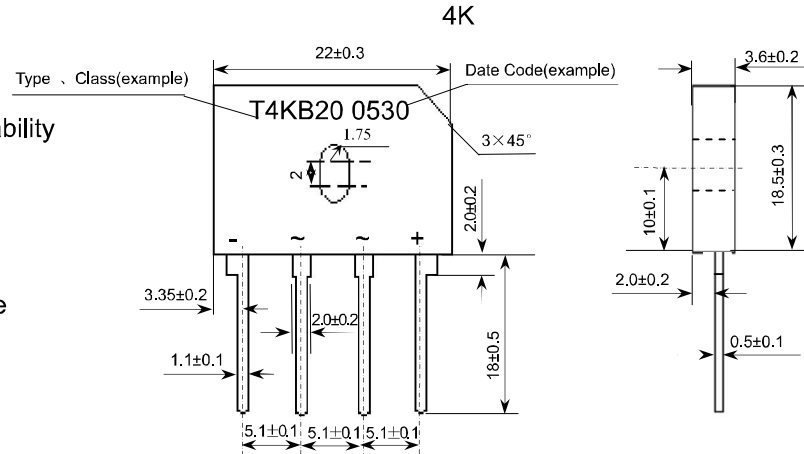
- $I_o$  4.0A
- $V_{RRM}$  200V~800V
- Glass passivated chip
- High surge forward current capability

### ■ Applications

- General purpose 1 phase Bridge rectifier applications

### Outline Dimensions and Mark

Unit: mm



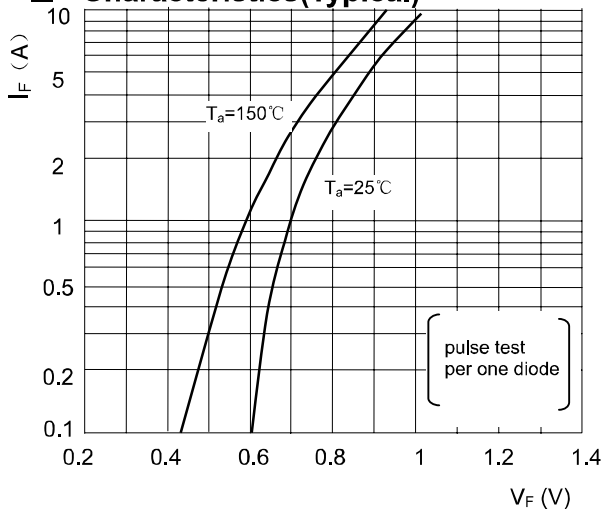
### ■ Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	T4KB			
				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 $T_c=110^{\circ}C$			
				Without Heatsink $T_a=25^{\circ}C$			
Surge(Non-repetitive)Forward Current	$I_{FSM}$	A	50Hz sine wave, 1 cycle, $T_a=25^{\circ}C$	150			
Current Squared Time	$I^2t$	A <sup>2</sup> s	1ms ≤ t < 8.3ms $T_j=25^{\circ}C$ , Rating of per diode	112			
Dielectric Strength	Vdis	kV	Terminals to case, AC 1 minute	2			
Mounting Torque	TOR	kg · cm	Recommend torque: 5kg · cm	8			

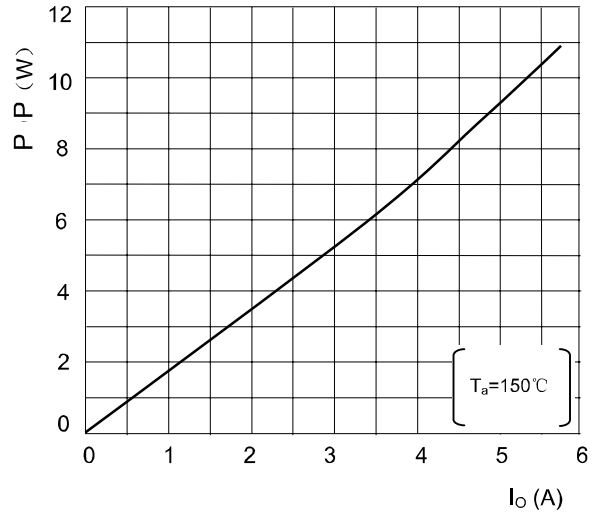
### ■ Electrical Characteristics ( $T_a=25^{\circ}C$ Unless otherwise specified)

Item	Symbol	Unit	Test Condition	Max
Peak Forward Voltage	$V_{FM}$	V	$I_{FM}=4.0A$ , 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	23
	$R_{\theta J-L}$		Between junction and lead, Without heatsink	4.2
	$R_{\theta J-C}$		Between junction and case, With heatsink	5.5

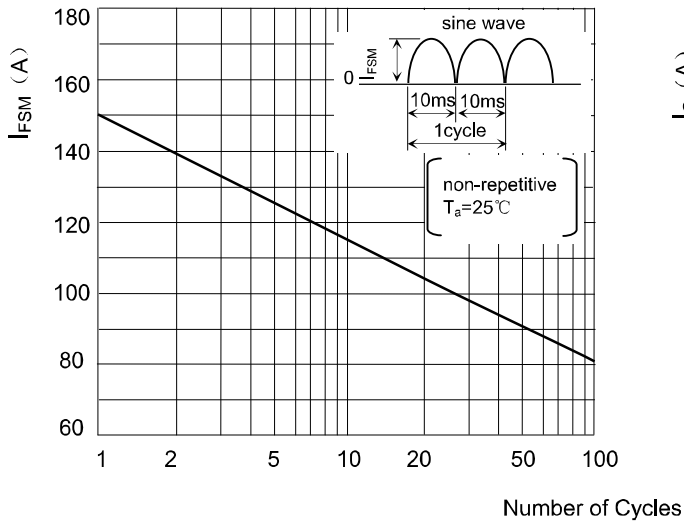
**Characteristics(Typical)**



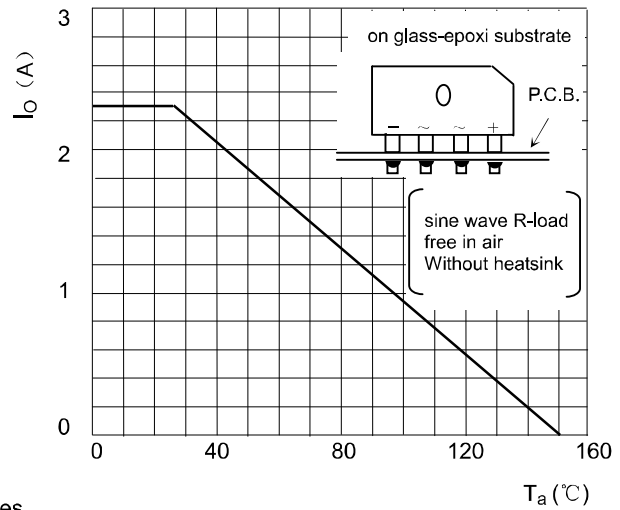
Forward Characteristics



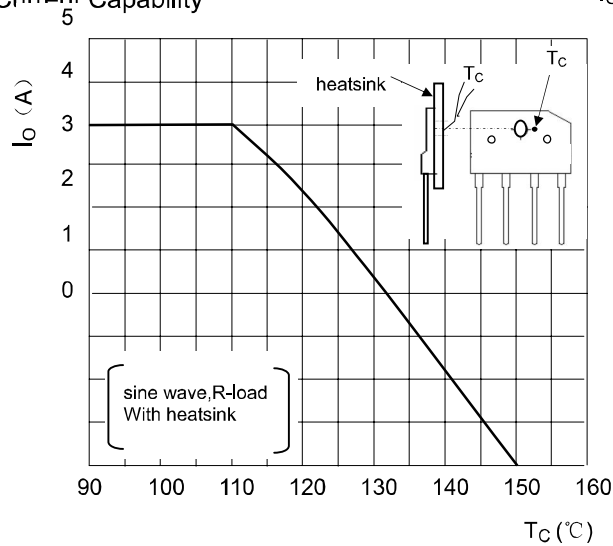
P- $I_o$  Curve



Surge Forward Current Capability



$I_o$ - $T_a$  Curve



$I_o$ - $T_c$  Curve