

■ **Features** 4.0A

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

- HF product

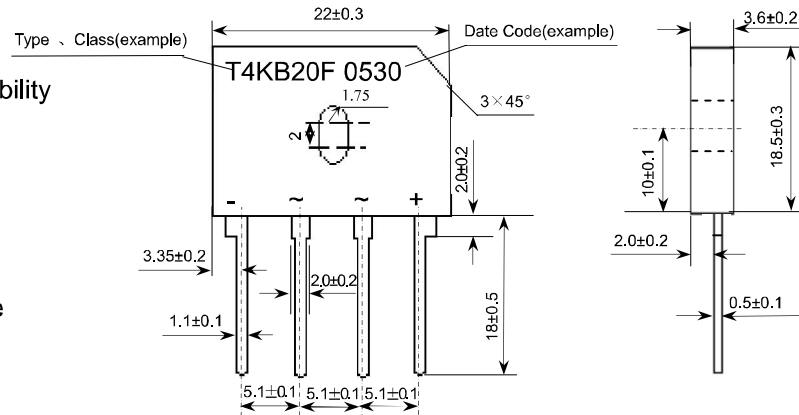
■ **Applications**

- General purpose 1 phase Bridge rectifier applications

Outline Dimensions and Mark

4K

Unit: mm



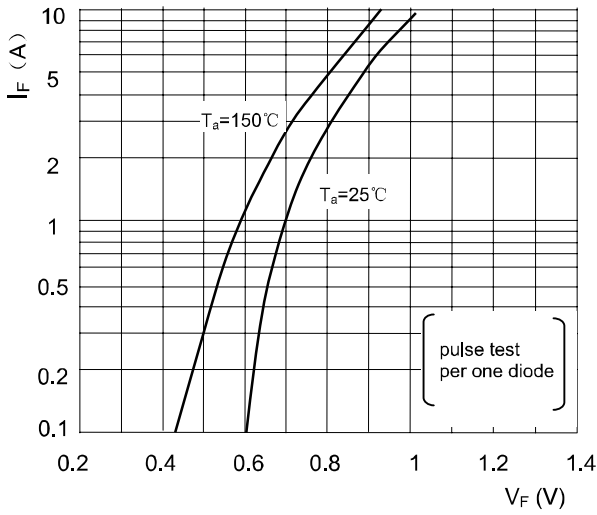
■ **Limiting Values (Absolute Maximum Rating)**

Item	Symbol	Unit	Conditions	T4KB			
				20 F	40 F	60 F	80 F
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 $T_c=110^\circ\text{C}$			
				Without heatsink $T_a=25^\circ\text{C}$			
Surge(Non-repetitive)Forward Current	I_{FSM}	A	50Hz sine wave, 1 cycle, $T_a=25^\circ\text{C}$	150			
Current Squared Time	I^2t	A ² s	1ms ≤ t < 8.3ms $T_j=25^\circ\text{C}$, Rating of per diode	93			
Dielectric Strength	Vdis	kV	Terminals to case, AC 1 minute	2			
Mounting Torque	TOR	kg · cm	Recommend torque: 5kg · cm	8			

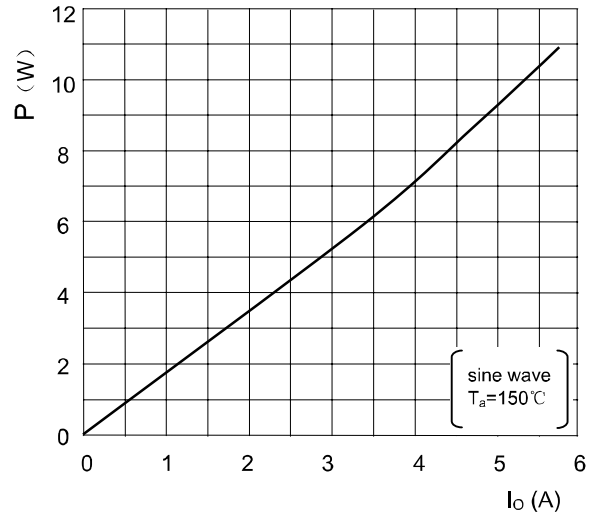
■ **Electrical Characteristics** ($T_a=25^\circ\text{C}$ Unless otherwise specified)

Item	Symbol	Unit	Test Condition	Max
Peak Forward Voltage	V_{FM}	V	$I_{FM}=4.0\text{A}$, Pulse measurement, Rating of per diode	1.0
Peak Reverse Current	I_{RRM}	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

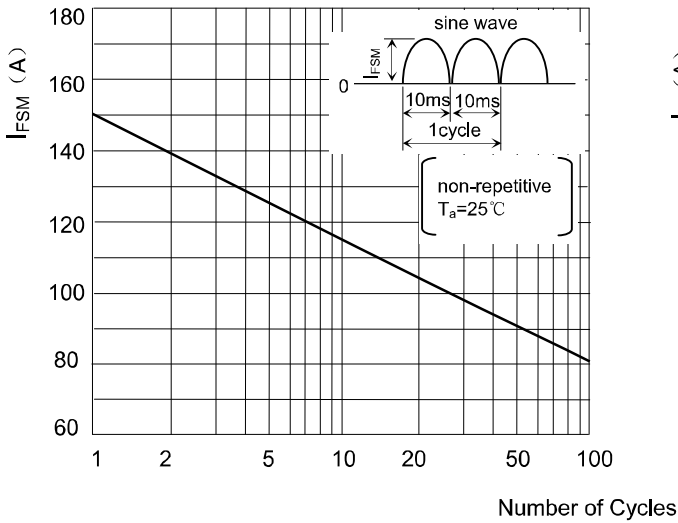
■ Characteristics(Typical)



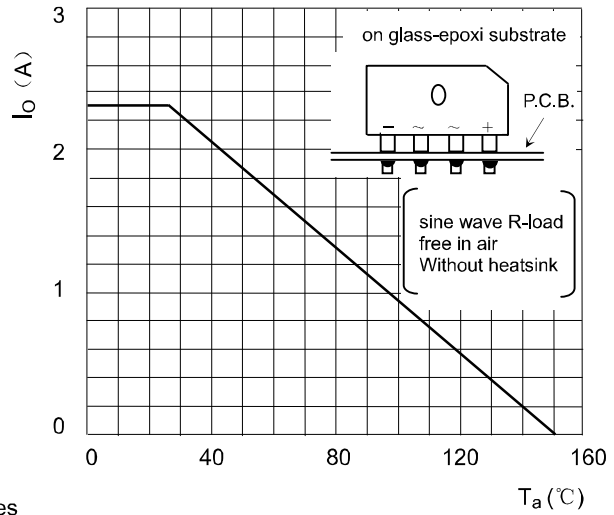
Forward Characteristics



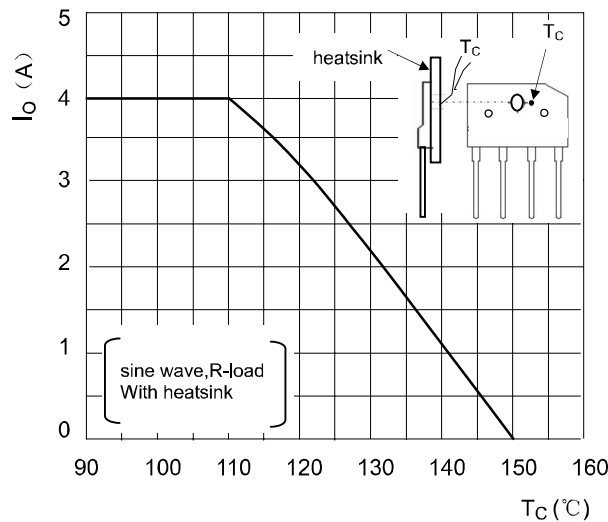
P-IO Curve



Surge Forward Current Capability



IO-Ta Curve



IO-Tc Curve