

■ Features

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

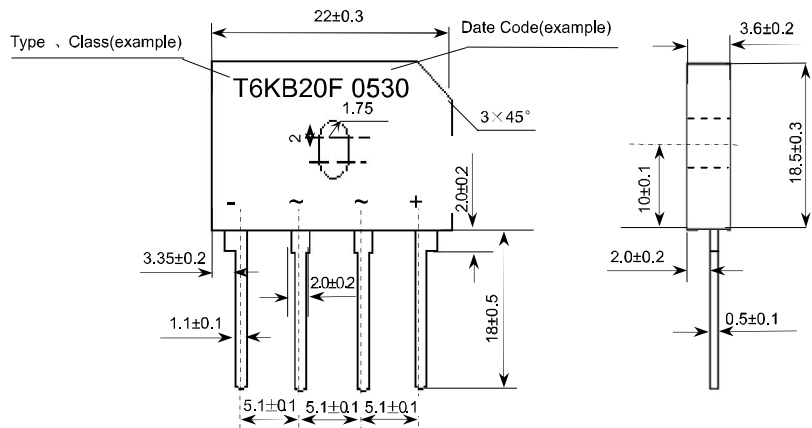
■ Applications

- General purpose 1 phase Bridge rectifier applications

Outline Dimensions and Mark

4K

Unit: mm



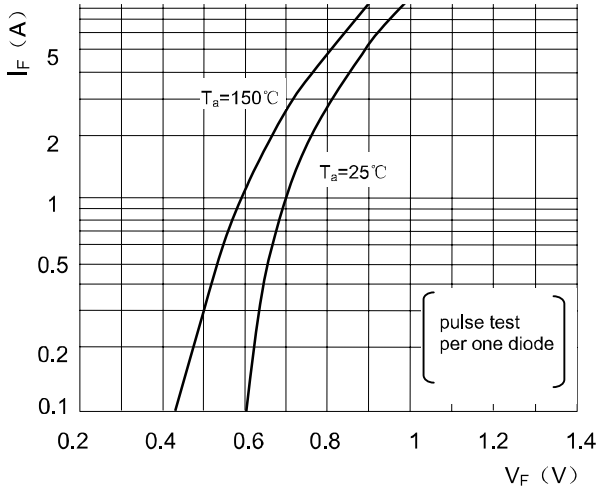
■ Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	T6KB			
				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 $T_c=98^\circ\text{C}$			
				Without heatsink $T_a=25^\circ\text{C}$			
Surge(Non-repetitive)Forward Current	I_{FSM}	A	50Hz sine wave, 1 cycle, $T_a=25^\circ\text{C}$	175			
Current Squared Time	I^2t	A^2s	$1\text{ms} \leq t < 8.3\text{ms}$ $T_j=25^\circ\text{C}$, Rating of per diode	127			
Dielectric Strength	V_{dis}	kV	Terminals to case, AC 1 minute	2			
Mounting Torque	TOR	$\text{kg} \cdot \text{cm}$	Recommend torque: $5\text{kg} \cdot \text{cm}$	8			

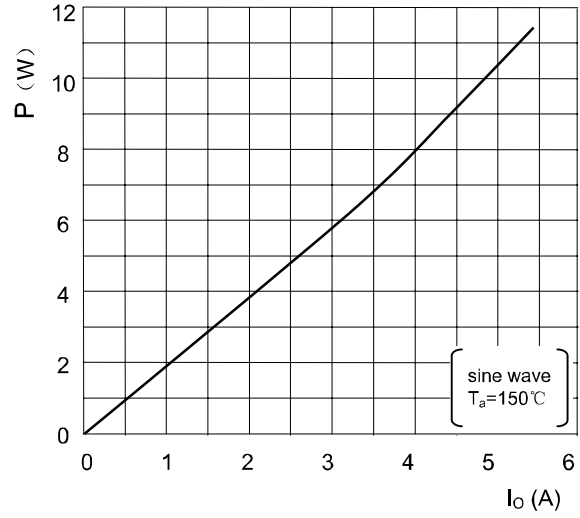
■ Electrical Characteristics ($T_a=25^\circ\text{C}$ Unless otherwise specified)

Item	Symbol	Unit	Test Condition	Max
Peak Forward Voltage	V_{FM}	V	$I_{FM}=6.0\text{A}$, 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	22
	$R_{\theta J-L}$		Between junction and lead, Without heatsink	4
	$R_{\theta J-C}$		Between junction and case, With heatsink	5

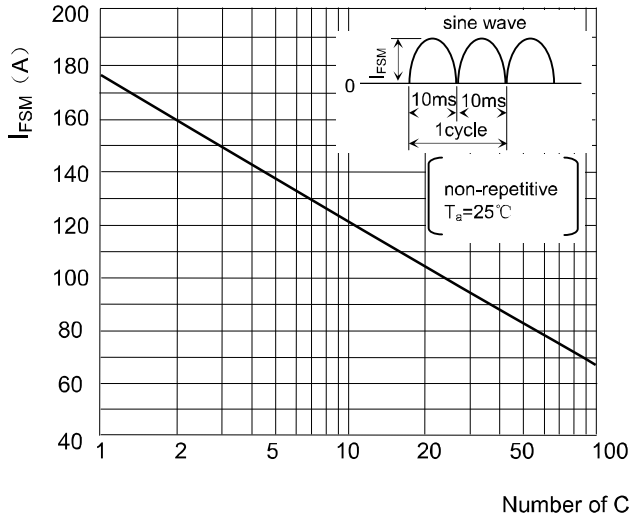
Characteristics(Typical)



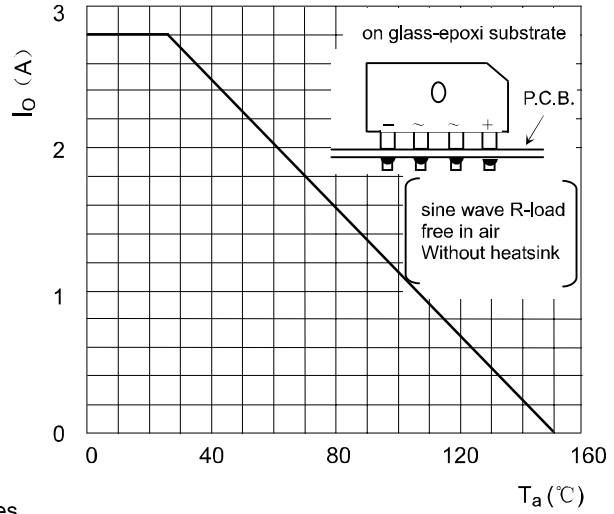
Forward Characteristics



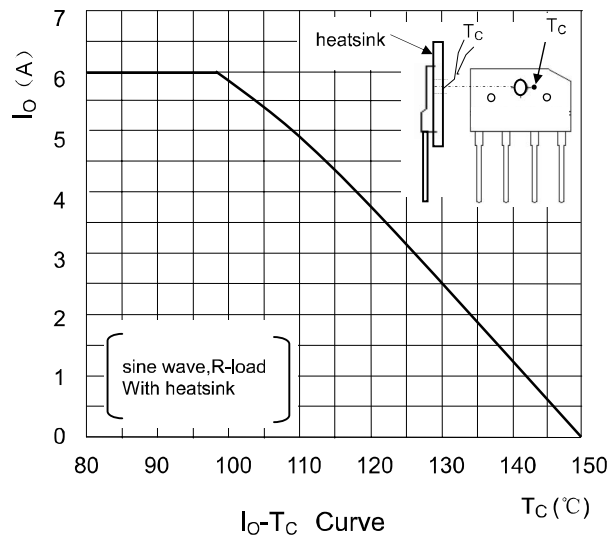
P- I_o Curve



Surge Forward Current Capability



I_o - T_a Curve



I_o - T_c Curve