

■ Features

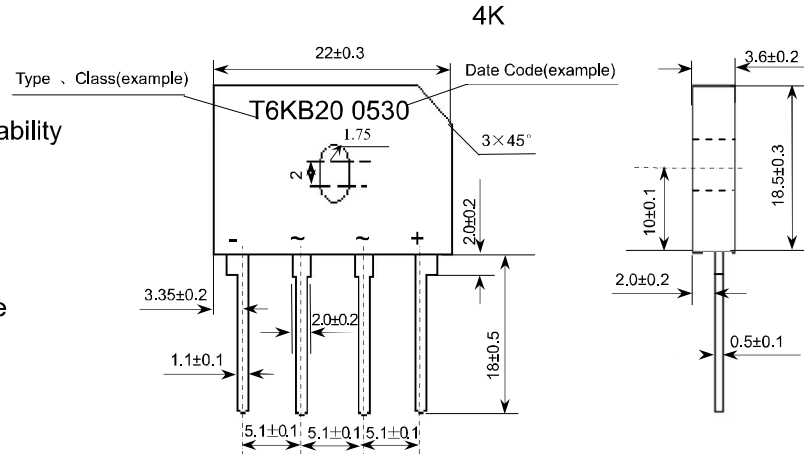
- I_o 6.0A
- V_{RRM} 200V~800V
- Glass passivated chip
- High surge forward current capability

■ Applications

- General purpose 1 phase Bridge rectifier applications

Outline Dimensions and Mark

Unit: mm



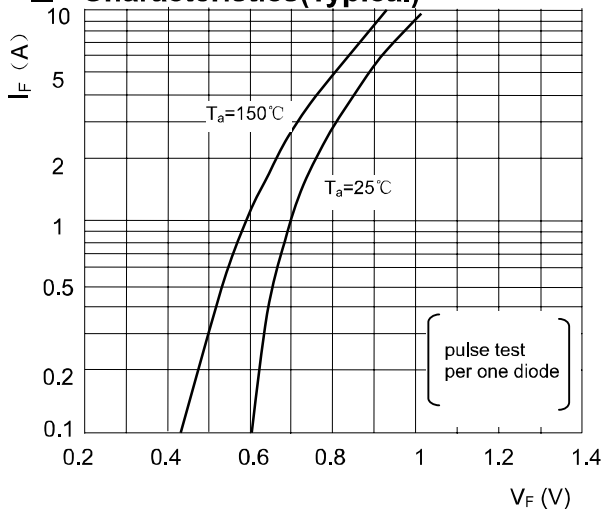
■ Limiting Values (Absolute Maximum Rating)

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 $T = 110^\circ\text{C}$		6.0	
				Without Heatsink $T_a = 25^\circ\text{C}$		2.8	
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	1ms $\leq t < 8.3\text{ms}$ $T_j = 25^\circ\text{C}$, Rating of per diode				127
Dielectric Strength	V_{dis}	kV	Terminals to case, AC 1 minute				2
Mounting Torque	TOR	kg · cm	Recommend torque: 5kg · cm				8

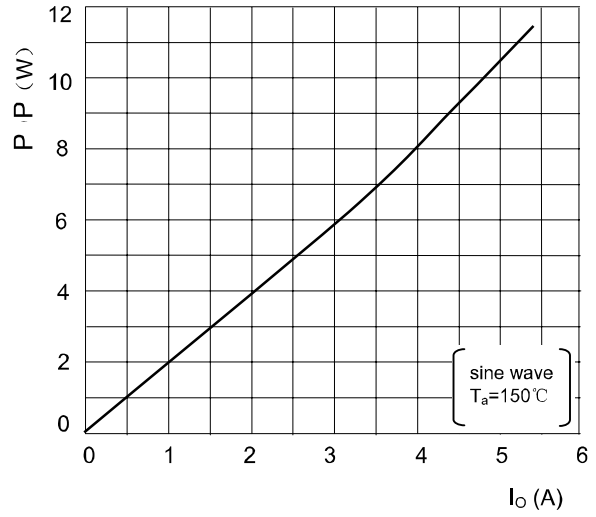
■ Electrical Characteristics ($T_a = 25^\circ\text{C}$ Unless otherwise specified)

Item	Symbol	Unit	Test Condition	Max
Peak Forward Voltage	V_{FM}	V	$I_{FM} = 6.0\text{A}$, 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

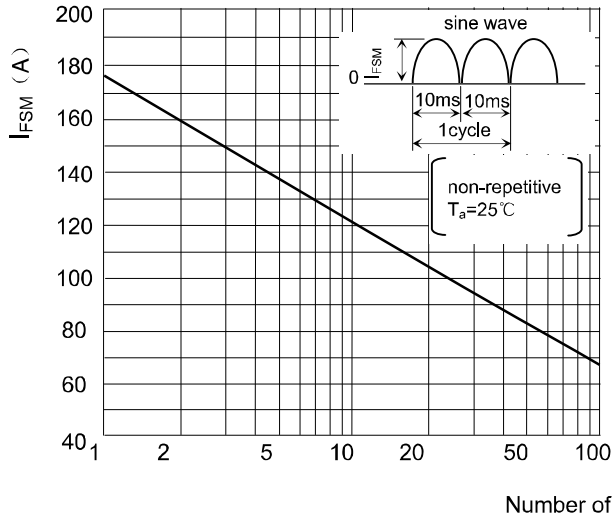
Characteristics(Typical)



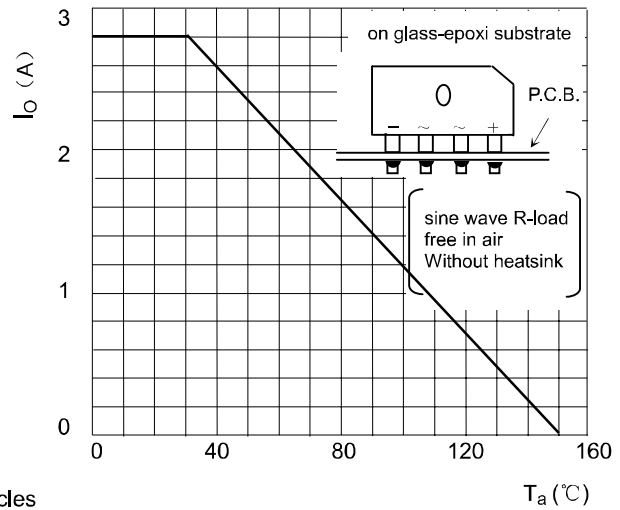
Forward Characteristics



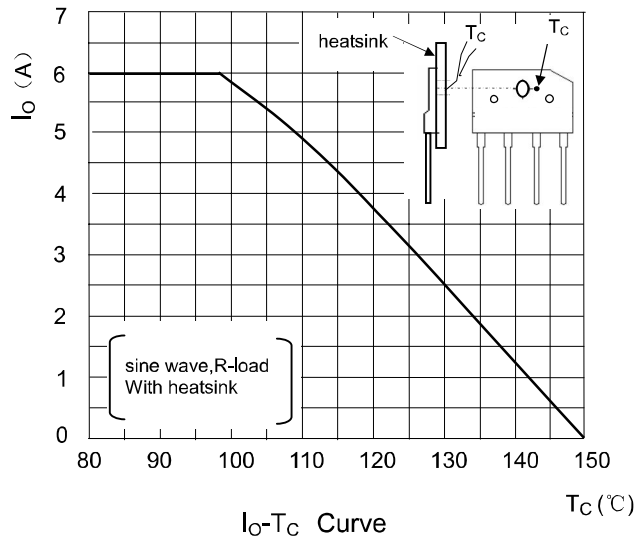
P-I_o Curve



Surge Forward Current Capability



I_o-T_a Curve



I_o-T_c Curve