

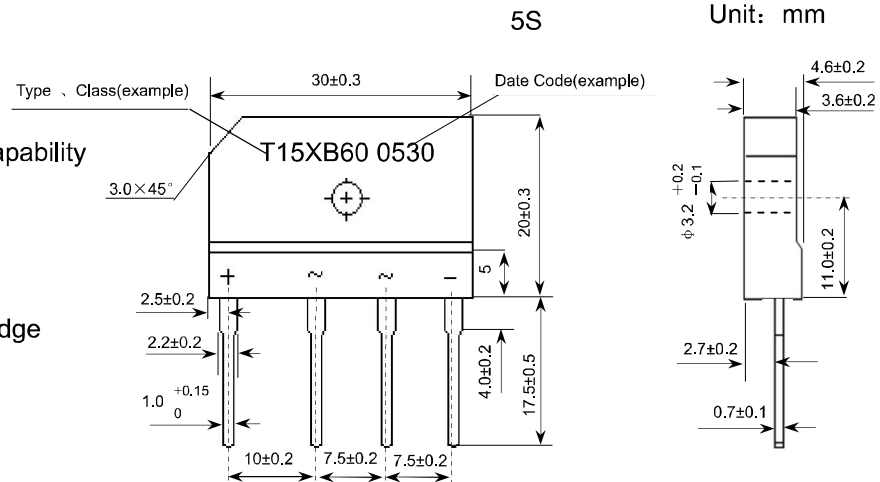
■ **Features**

- $I_o$  15.0A
- $V_{RRM}$  200V~800V
- Glass passivated chip
- High surge forward current capability

■ **Applications**

- General purpose 1 phase Bridge rectifier applications

**Outline Dimensions and Mark**



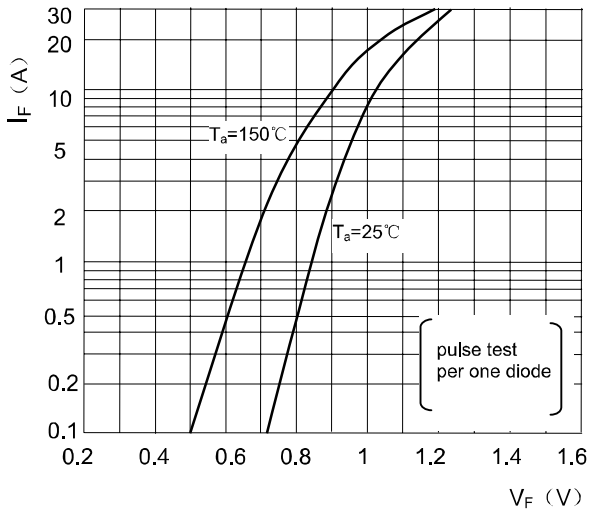
■ **Limiting Values (Absolute Maximum Rating)**

Item	Symbol	Unit	Conditions	T15XB			
				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 $T_c=110^\circ\text{C}$			
				Without Heatsink $T_a=25^\circ\text{C}$			
Surge(Non-repetitive)Forward Current	$I_{FSM}$	A	50Hz sine wave, 1 cycle, $T_a=25^\circ\text{C}$				
Current Squared Time	$I^2t$	$\text{A}^2\text{s}$	1ms ≤ t < 8.3ms $T_j=25^\circ\text{C}$ , Rating of per diode				
Dielectric Strength	Vdis	kV	Terminals to case, AC 1 minute				
Mounting Torque	TOR	kg · cm	Recommend torque: 5kg · cm				

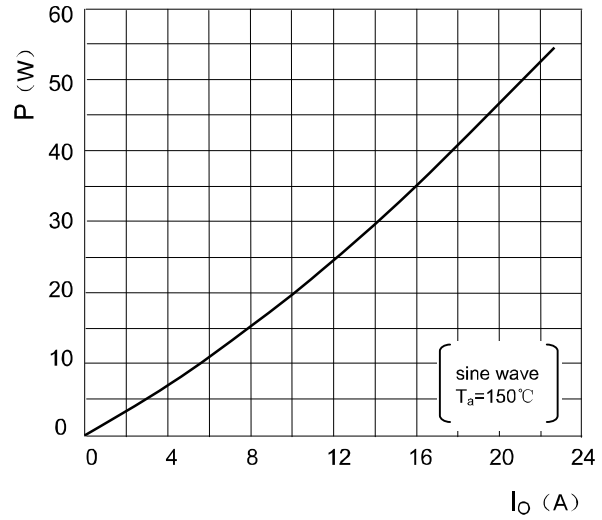
■ **Electrical Characteristics ( $T_a=25^\circ\text{C}$  Unless otherwise specified)**

Item	Symbol	Unit	Test Condition	Max
Peak Forward Voltage	$V_{FM}$	V	$I_{FM}=7.5\text{A}$ , Pulse measurement, Rating of per diode	1.1
Peak Reverse Current	$I_{RRM}$	μA	$V_{RM}=V_{RRM}$ , Pulse measurement, Rating of per diode	10
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	5
	$R_{\theta J-C}$		Between junction and case, With heatsink	1.5

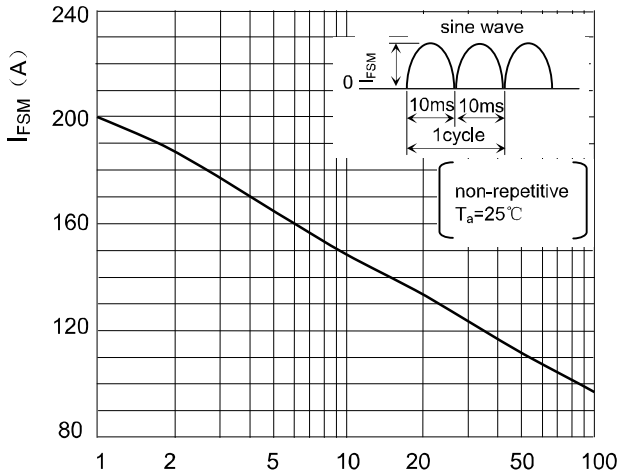
■ Characteristics(Typical)



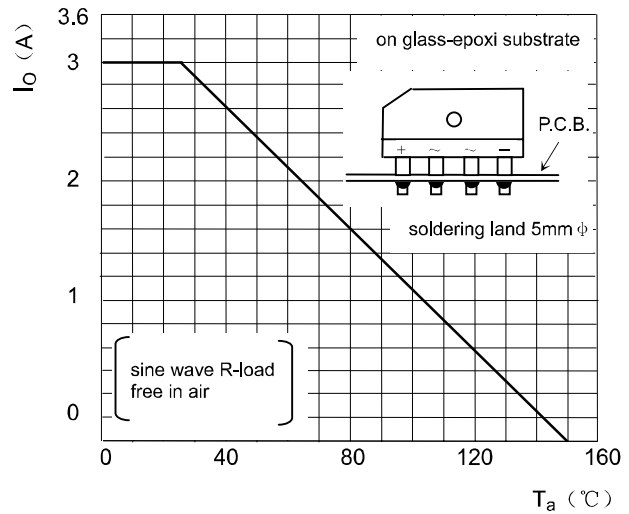
Forward Characteristics



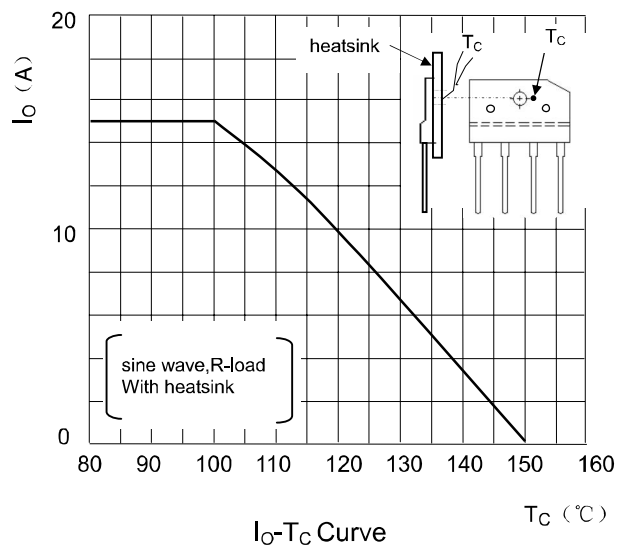
P-I<sub>o</sub> Curve



Surge Forward Current Capability



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



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