

■ Features

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

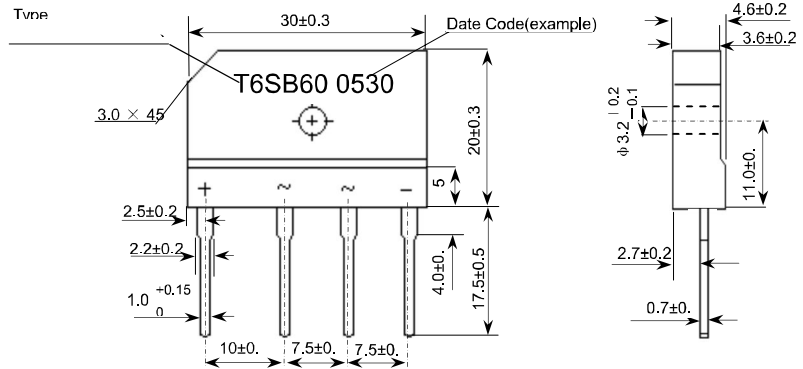
■ Applications

- General purpose 1 phase Bridge rectifier applications

Outline Dimensions and Mark

5S

Unit: mm



■ Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	T6SB			
				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, $T_a=25^{\circ}\text{C}$	170			
Current Squared Time	I^2t	A ² s	1ms≤t<8.3ms $T_j=25^{\circ}\text{C}$, Rating of per diode	120			
Dielectric Strength	V_{dis}	kV	Terminals to case, AC 1 minute	2.5			
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	$I_{FM}=3.0\text{A}$, Pulse measurement, Rating of per diode	1.05
Peak Reverse Current	I_{RRM}	μA	$V_{RM}=V_{RRM}$, Pulse measurement, Rating of per diode	10
Thermal Resistance	$R_{\theta JA}$	°C/W	Between junction and ambient, Without heatsink	26
	$R_{\theta JL}$		Between junction and lead, Without heatsink	5
	$R_{\theta JC}$		Between junction and case, With heatsink	3.4
	$R_{\theta CF}$		Between case and heatsink, Mounting torque 5kg • cm	2

■ Characteristics(Typical)

