

Features

- I_o 15A
- V_{RRM} 200V~1000V
- Glass passivated chip
- High surge forward current capability
- Halogen Free product
- Component in accordance to ROHS 2002/95/EC and WEEE2002/96/WC

Mechanical data

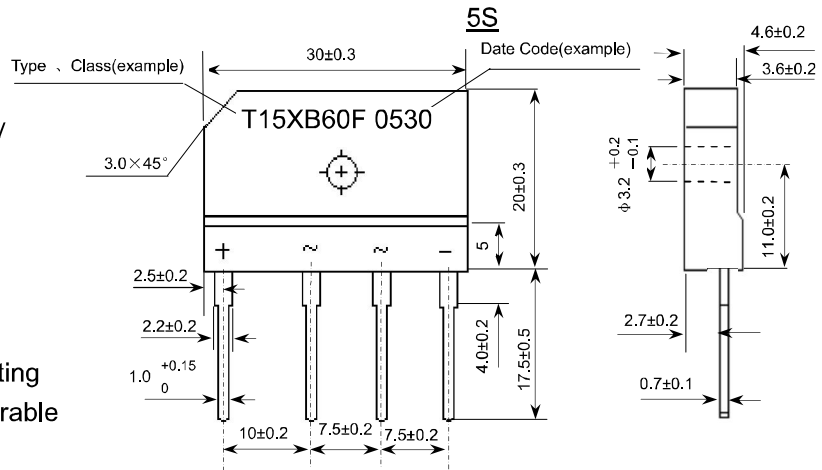
Case: 5S

Epoxy meets UL 94V-0 flammability rating

Terminals: Pure tin plated leads, solderable per J-STD-002 and JESD22-B102, E3 suffix for consumer grade, meet JESD201 class 1A whisker test.

Polarity: As marked on body

Package Outline Dimensions in millimeters



Maximum Rating ($T_a=25^\circ\text{C}$ Unless otherwise noted)

Item	Symbol	Unit	Conditions	T15XB				
				20F	40F	60F	80F	100F
Storage Temperature	T_{stg}	$^\circ\text{C}$		-40 ~ +150				
Junction Temperature	T_j	$^\circ\text{C}$		+150				
Repetitive Peak Reverse Voltage	V_{RRM}	V		200	400	600	800	1000
Average Rectified Output Current	I_o	A	50Hz sine wave, R-load	With heatsink $T_c=100^\circ\text{C}$		15.0		
				Without heatsink $T_a=25^\circ\text{C}$		3.2		
Surge(Non-repetitive)Forward Current	I_{FSM}	A	50Hz sine wave, 1 cycle, $T_a=25^\circ\text{C}$		200			
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	$I_{FM}=7.5\text{A}$, 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	$R_{\theta J-A}$	$^\circ\text{C}/\text{W}$	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

Power Semiconductor Technology

Ratings and Characteristics ($T_A = 25^\circ\text{C}$ unless otherwise noted)

