

FBT8H60S-HAF

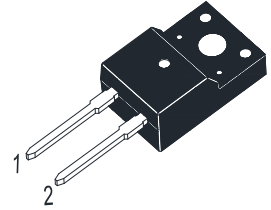
Surface Mount Fast Recovery Rectifier

Reverse Voltage - 600 V

Forward Current - 8 A

Features

- Low Forward Voltage Drop
- High Current Capability
- Low Power Loss
- Halogen and Antimony Free(HAF), RoHS compliant



1.Cathode 2. Anode
TO-220F-2 Plastic Package

Applications

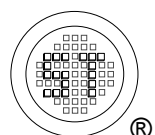
- Switching Power Supply
- Home Appliances, Office Equipment
- Telecommunication, Factory Automation

Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbols	Value	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	600	V
Average Forward Rectified Current ($T_C \leq 93^\circ\text{C}$)	$I_{F(AV)}$	8	A
Peak Forward Surge Current 8.3 ms Single Half-sine-wave Superimposed on Rated Load	I_{FSM}	100	A
Thermal Resistance-Junction to Case	$R_{\theta JC}$	7.5	$^\circ\text{C/W}$
Operating Junction Temperature	T_j	175	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 150	$^\circ\text{C}$

Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 10 \mu\text{A}$	$V_{(BR)R}$	600	-	V
Forward Voltage at $I_F = 8 \text{ A}$	V_F	-	3	V
Reverse Current at $V_R = 600 \text{ V}$	I_R	-	5	μA
Reverse Recovery Time at $I_F = 0.5 \text{ A}$, $I_R = 1 \text{ A}$, $I_{RR} = 0.25 \text{ A}$	t_{rr}	-	25	ns



FBT8H60S-HAF

Electrical Characteristics Curves

Fig. 1 Forward Current vs. Forward Voltage

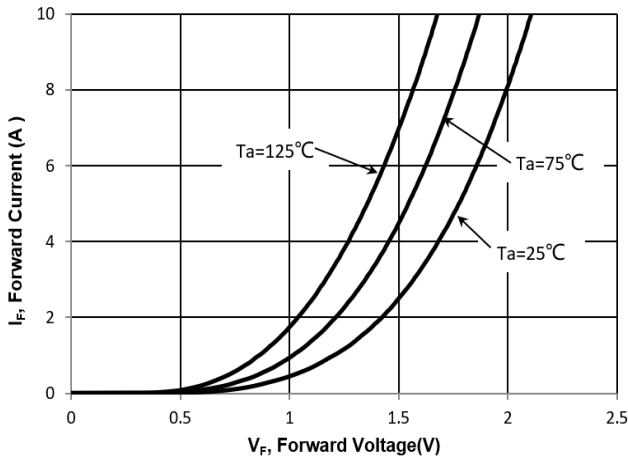


Fig. 2 Reverse Current vs. Reverse Voltage

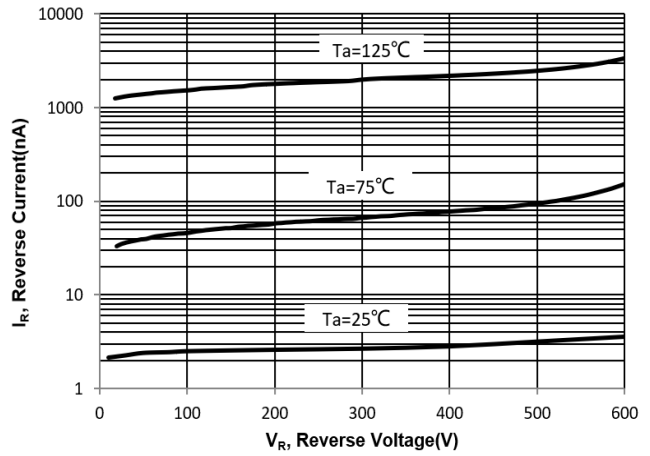


Fig. 3 Junction Capacitance vs. Reverse Voltage

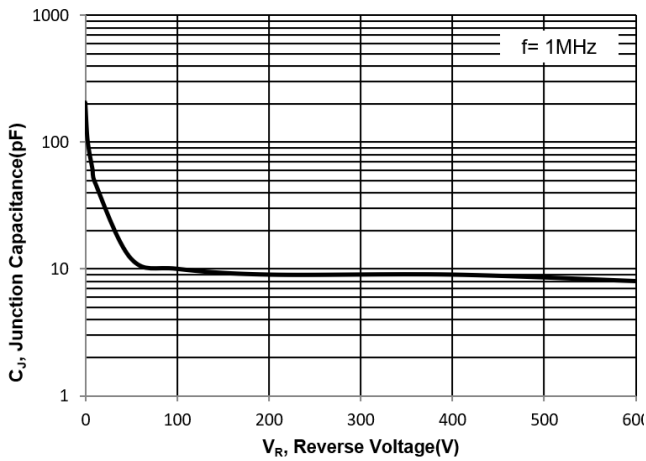
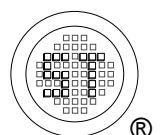
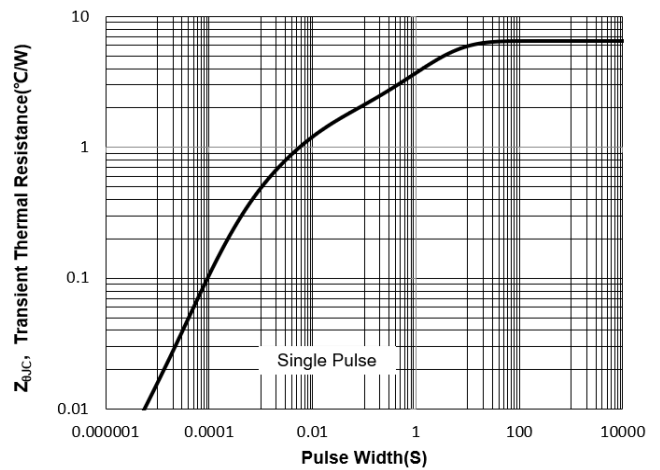
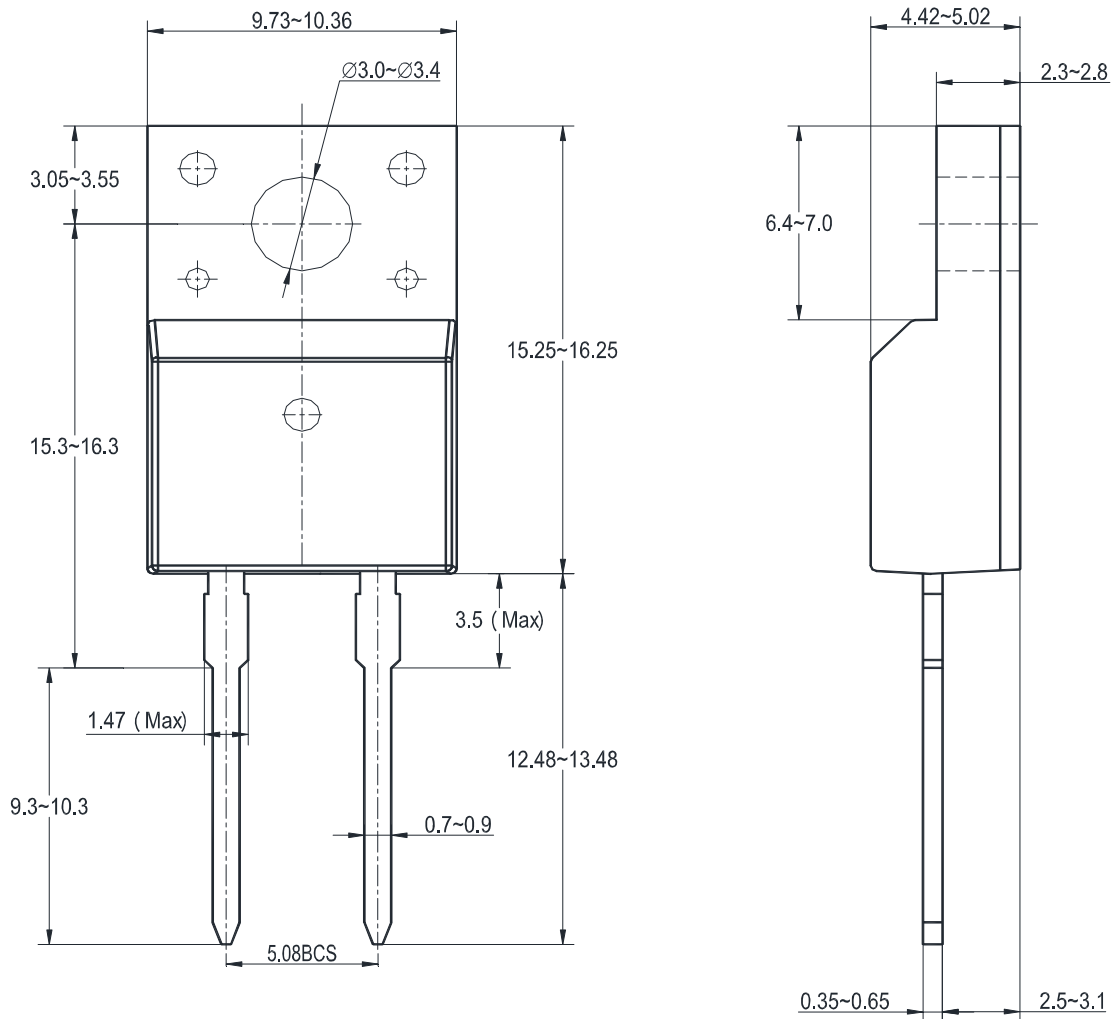


Fig. 4 Thermal Resistance



FBT8H60S-HAF

TO-220F-2 Package Outline



Dimensions in millimeters

Marking information

" FBT8H60S " = Part No.

" ***** " = Date Code Marking

Font type: Arial

