

Silicon Bridge Rectifiers

FTB208S - FTB210S

Features

- Glass passivated junction
- High surge current capability
- Saves space on printed circuit boards
- High-temp soldering guaranteed: 260°C @ 10s.
- RoHS compliant with Halogen-free



Mechanical Data

- Case: TBS molded plastic
- Molding compound meets UL 94 V-0 flammability rating
- Terminals: Lead Free Plating (Matte Tin Finish.)
- Polarity indicator: As marked on body

Maximum Ratings (@ T_A = 25°C unless otherwise specified)

Parameter		Symbol	FTB208S	FTB210S	Unit
Peak Repetitive Reverse Voltage		V _{RRM}	800	1000	V
RMS Reverse Voltage		V _{RMS}	560	700	V
DC Blocking Voltage		V _{DC}	800	1000	V
Average Forward Output Current		I _{F_AV}	2.0		A
Peak Forward Surge Current, 8.3ms Single Half-Sine-wave 1.0ms single square-wave	@T _A = 25°C	I _{FSM}	60 101		A
I ² t Rating for fusing		I ² t	14.9		A ² s

Thermal Characteristics

Parameter	Symbol	FTB208S	FTB210S	Unit
Typical Thermal Resistance *1	R _{ΘJA}	75		°C/W
	R _{ΘJC}	25		
	R _{ΘJL}	20		
Operating Junction Temperature Range	T _J	-55 ~ +150		°C
Storage Temperature Range	T _{STG}	-55 ~ +150		°C

Note 1: Device mounted on PCB with 10 mm x 20 mm x 0.1mm copper pad areas

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Electrical Characteristics (@ $T_A = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Test Condition		Typ.	Max.	Unit
Instantaneous Forward Voltage	V _F	I _F = 2.0A Per Diode		-	1.3	V
Reverse Current	I _R	Rated V _R	@ T _A = 25°C	-	5.0	μA
			@ T _A = 125°C	-	200.0	
Reverse Recovery Time	trr	I _F =0.5A,I _{RM} =1A, I _{R(REC)} =0.25A		-	500	ns

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

Fig.1 Forward Current Derating Curve

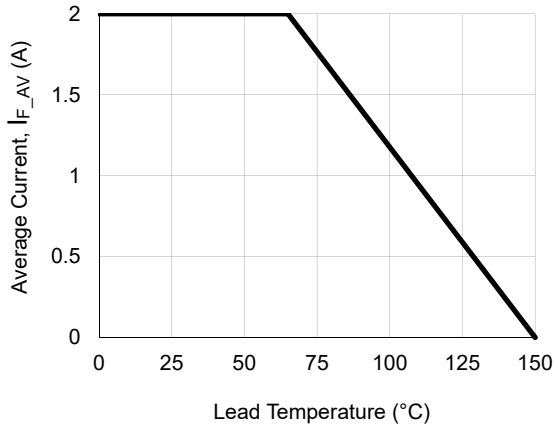


Fig.2 Surge Current Derating Curve

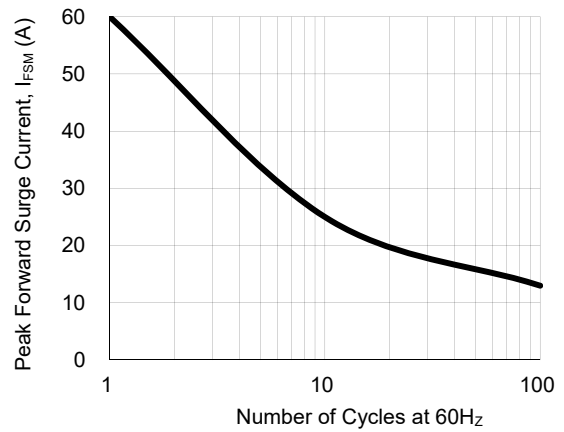


Fig.3 Typical Forward Voltage Characteristics

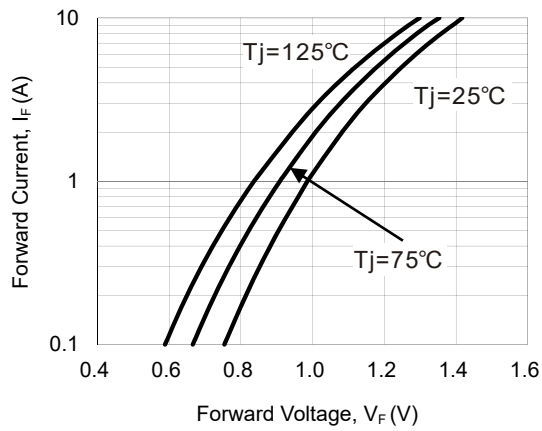
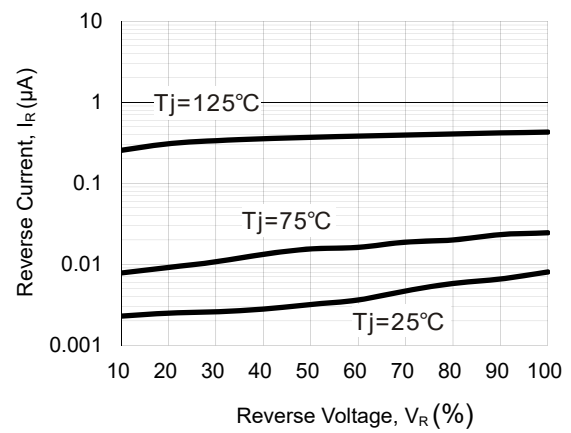


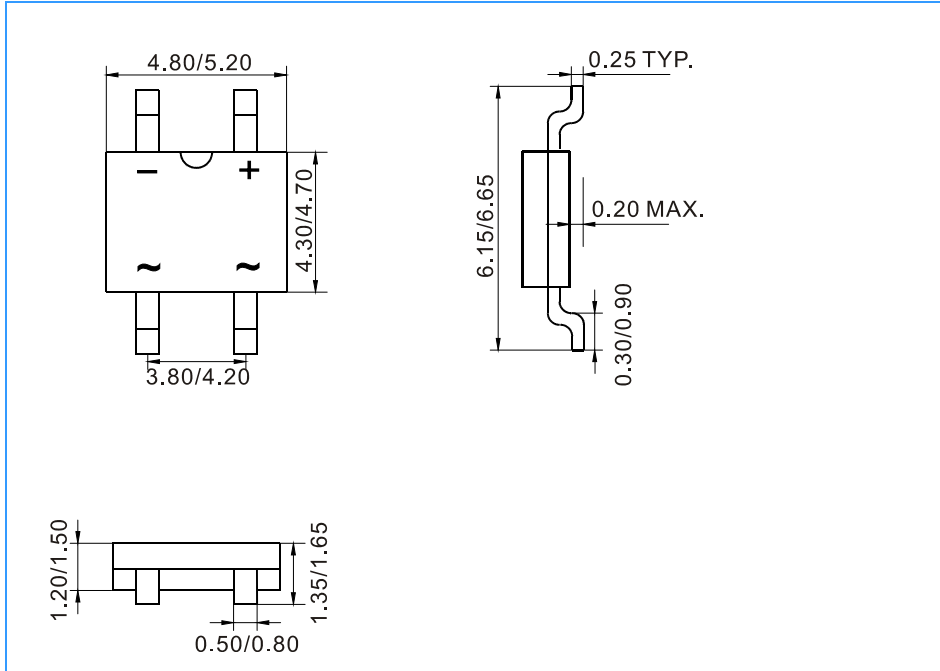
Fig.4 Typical Reverse Characteristics



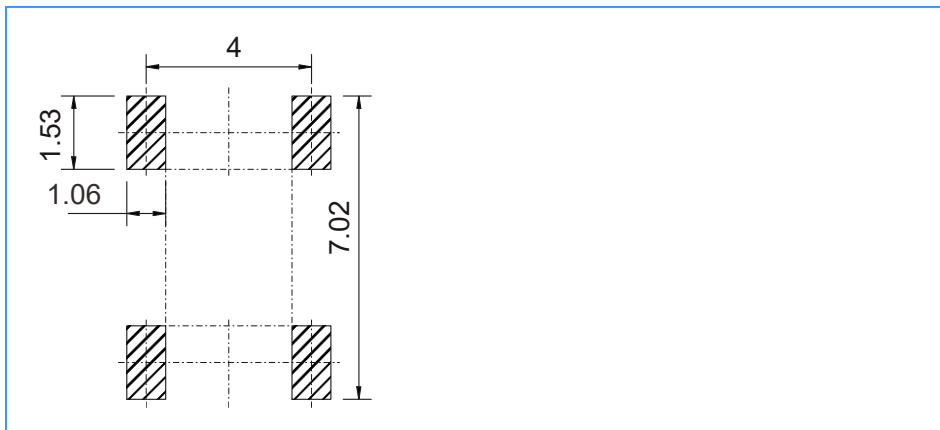
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Package Outline Dimensions (Unit: mm)



Mounting Pad Layout (Unit: mm)



Ordering Information

Part Number	Marking	Package	Shipping Quantity
FTB208S	FTB208S	TBS	4000 / Tape & Reel
FTB210S	FTB210S	TBS	4000 / Tape & Reel