FBS210-5K-60M

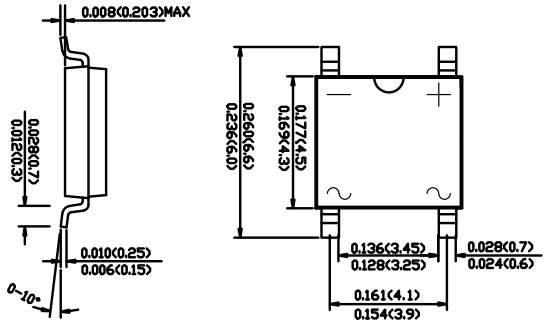
Voltage Range - 100 to 1000 Volts Current - 2.0 Ampere

GLASS PASSIVATED SURFACE MOUNT BRIDGE RECTIFIERS

Features

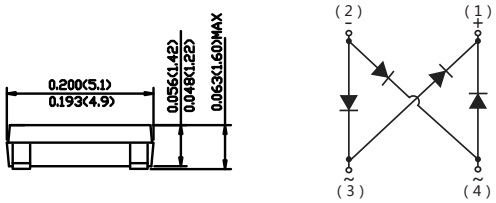
ABS RoHS COMPLIANT

- Glass Passivated Chip Junction
- Reverse Voltage - 100 to 1000 V
- Forward Current- 2.0 A
- Fast reverse recovery time
- Designed for Surface Mount Application



Mechanical Data

Case : JEDEC ABS molded plastic body
Terminals : Solderable per MIL-STD-750,Method 2026
Polarity : Polarity symbol marking on body Mounting Position : Any
Weight : 0.0031 ounce, 0.088 grams



Dimensions in inches and (millimeters)

Maximum Ratings And Electrical Characteristics

Ratings at 25℃ ambient temperature unless otherwise specified.
Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.

Parameter Marking Code	Symbols	FBS210-5K-60M	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	1000	V
Maximum RMS voltage	V_{RMS}	700	V
Maximum DC Blocking Voltage	V_{DC}	1000	V
Average Rectified Output Current at T_c = 115 °C	I_O	2.0	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	55	A
Maximum Forward Voltage at 2.0 A	V_F	1.1	V
Maximum DC Reverse Current @T_a=25 °C at Rated DC Blocking Voltage @T_a=125 °C	I_R	5.0 100	μA
Typical Junction Capacitance (Note 1)	C_j	40	pF
Typical Thermal Resistance (Note2)	$R_{\theta JA}$	50	°C/W
Maximum Reverse Recovery Time (Note3)	t_{rr}	500	ns
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +175	°C

Note: 1. Measured at 1MHz and applied reverse voltage of 4 V D.C.
2. Mounted on glass epoxy PC board with4×1.5"×1.5" (3.81×3.81 cm) copper pad areas.
3. Measured with I = 0.5 A, I = 1 A, Irr = 0.25 A .

Typical Characterisitics

Fig.1 Average Rectified Output Current Derating Curve

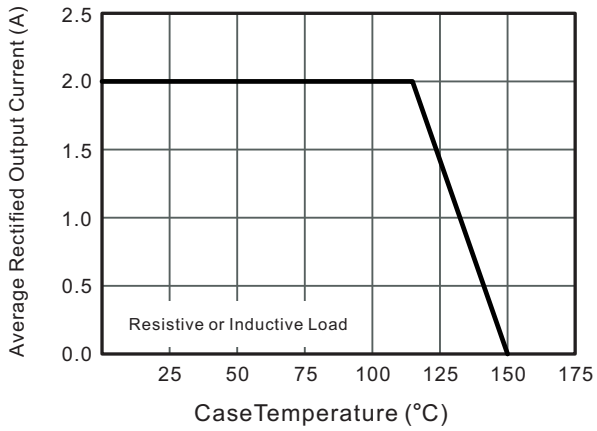


Fig.2 Typical Reverse Characteristics

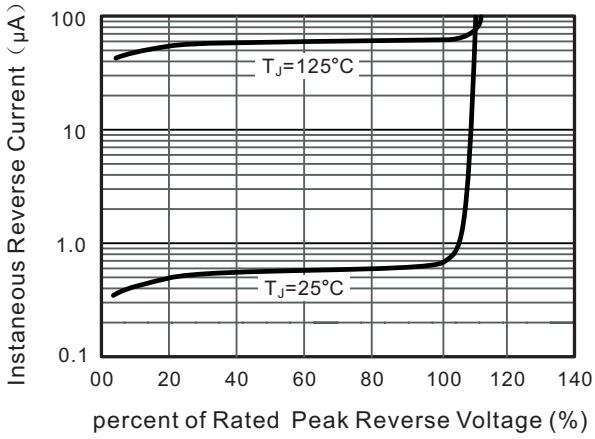


Fig.3 Typical Instaneous Forward Characteristics

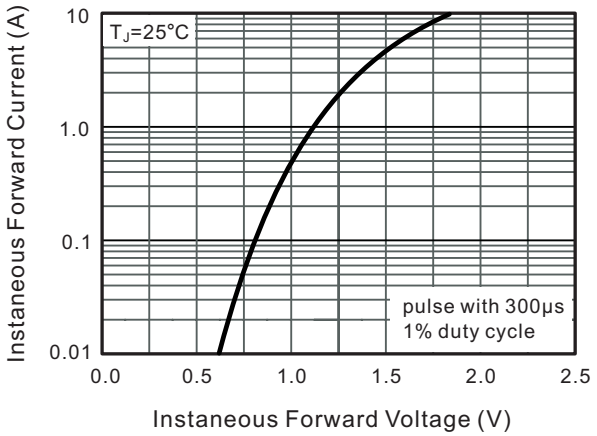


Fig.4 Typical Junction Capacitance

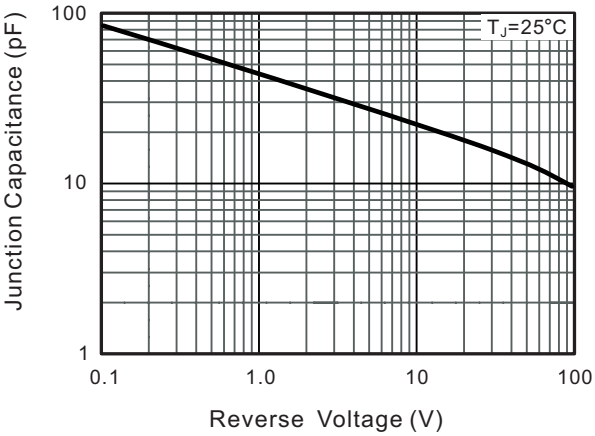
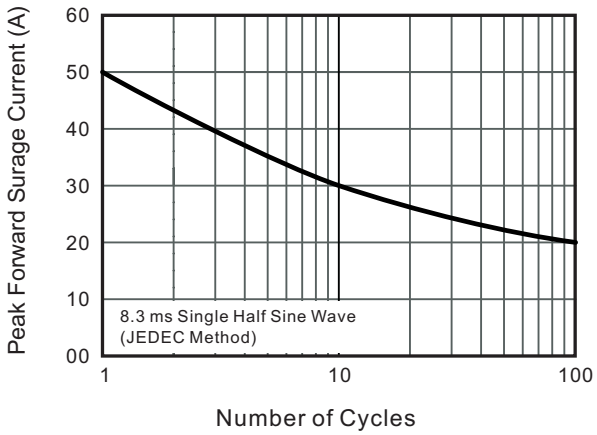


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current



The curve above is for reference only.