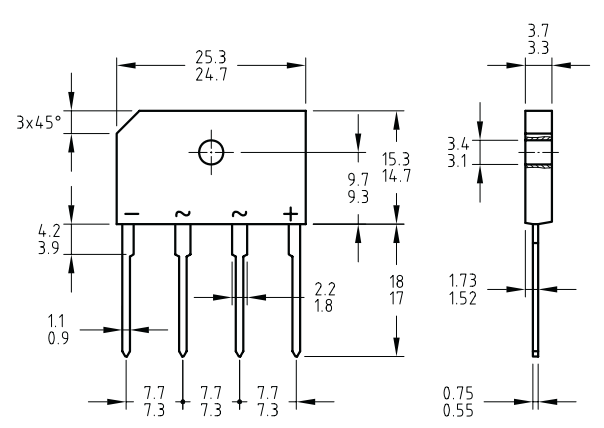


4.0 Amp. Glass Passivated Ultrafast Bridge Rectifiers

Dimensions in mm.	IN LINE 7M1	Voltage 200 V to 400 V	Current 4.0 A
		<ul style="list-style-type: none"> • Glass passivated chip junction • Ideal for printed circuit board • Reliable low cost construction • Plastic material has Underwriters Laboratory Flammability Classification 94V-0 • High case dielectric strength of 2000 V_{RMS} • Isolated voltage from case to lead over 2500 volts 	
		MECHANICAL DATA <ul style="list-style-type: none"> • Case: Molded plastic • Terminals: Leads solderable per MIL-STD-750, Method 2026 • Weight: 0.15 ounce, 4 grams • Mounting torque: 5 in. lbs. max. 	

Maximum Ratings and Electrical Characteristics at 25 °C

		FBIU4 D7M1	FBIU4 G7M1
V_{RRM}	Maximum Recurrent Peak Reverse Voltage (V)	200	400
V_{RMS}	Maximum RMS Voltage (V)	140	280
V_{DC}	Maximum DC Blocking Voltage (V)	200	400
$I_{F(AV)}$	Maximum Average Forward Rectified Current See Fig.	4.0 A	
I_{FSM}	Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	150 A	
T_{rr}	Maximum Reverse Recovery Time (Note 1)	35 ns	50 ns
T_j	Operating Temperature Range	-55 to +150 °C	
T_{stg}	Storage Temperature Range	-55 to +150 °C	

Electrical Characteristics at $T_{amb} = 25\text{ °C}$

V_F	Maximum Instantaneous Forward Voltage @ = 4.0 A	0.98 V	1.3 V
I_R	Maximum DC Reverse Current @ $T_A = 25\text{ °C}$ at Rated DC Blocking Voltage @ $T_A = 125\text{ °C}$	5.0 μ A 500 μ A	
$R_{th(j-c)}$	Typical Thermal Resistance (Note 2)	5.5 °C/W	

Notes: 1. Reverse Recovry Test Conditions: $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$.

2. Thermal Resistance from Junction to Case with Device Mounted on 2" x 3" x 0.25" Al-Plate Heatsink.

Rating And Characteristic Curves

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

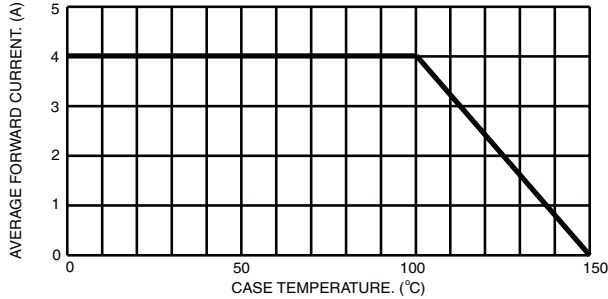


FIG.3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

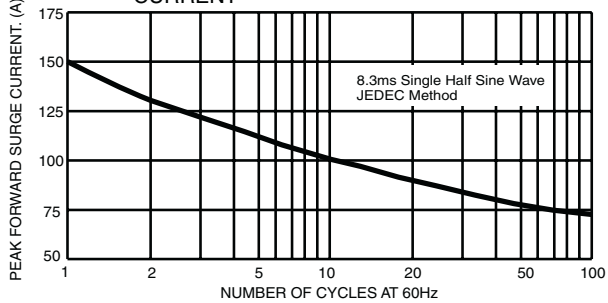
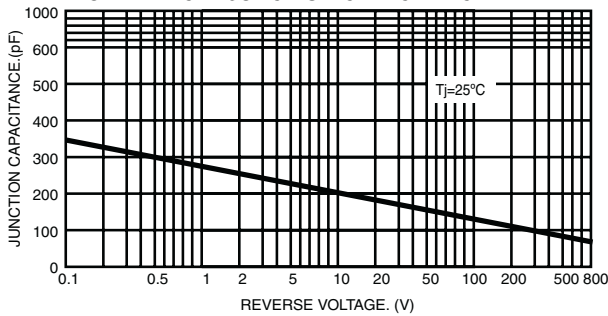


FIG.4- TYPICAL JUNCTION CAPACITANCE



TSS4B01G

FIG.2- TYPICAL FORWARD CHARACTERISTICS

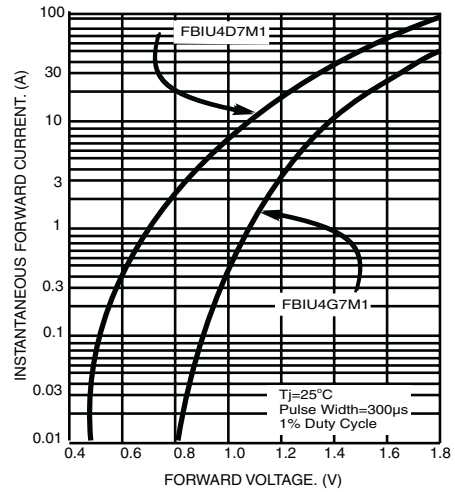


FIG.5- TYPICAL REVERSE CHARACTERISTICS

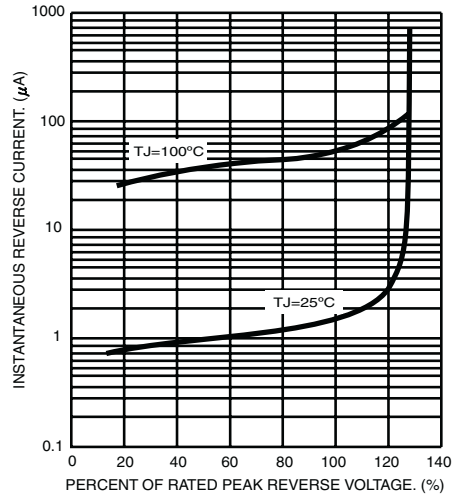
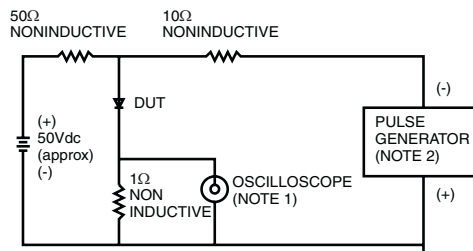


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



NOTES: 1. Rise Time=7ns max. Input Impedance=1 megohm 22pf
2. Rise Time=10ns max. Source Impedance=50 ohms

