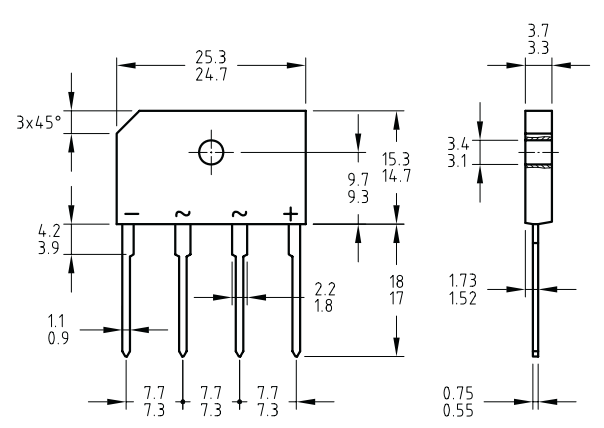


## 4.0 Amp. Glass Passivated Ultrafast Bridge Rectifiers

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

### 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	

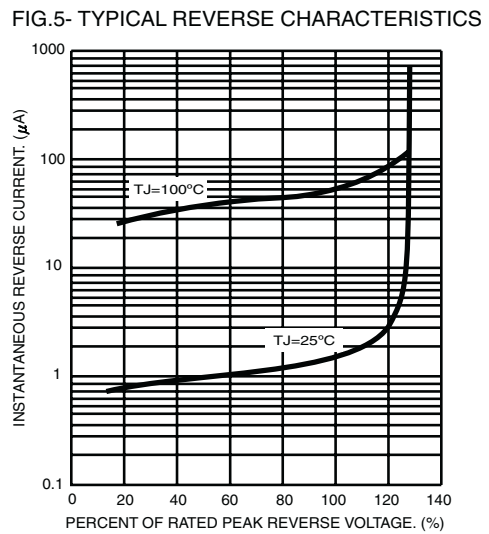
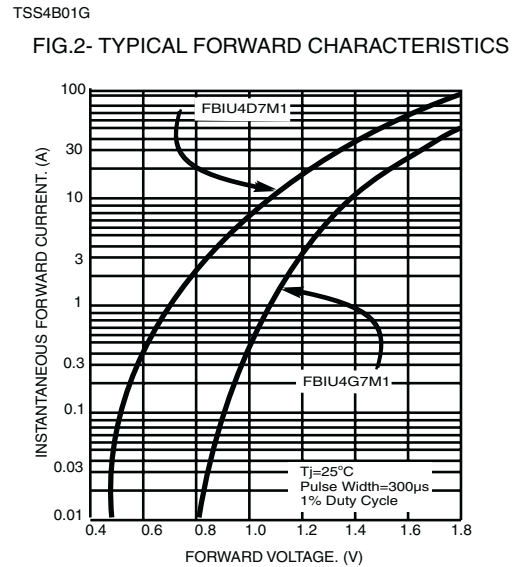
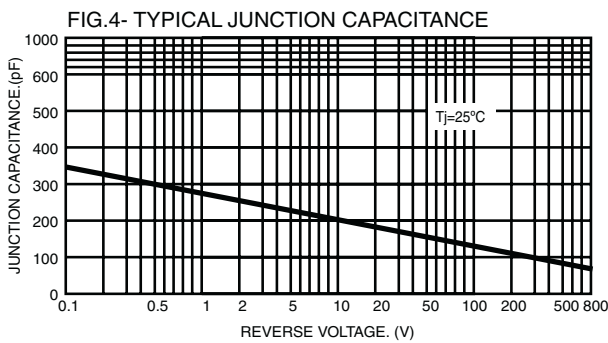
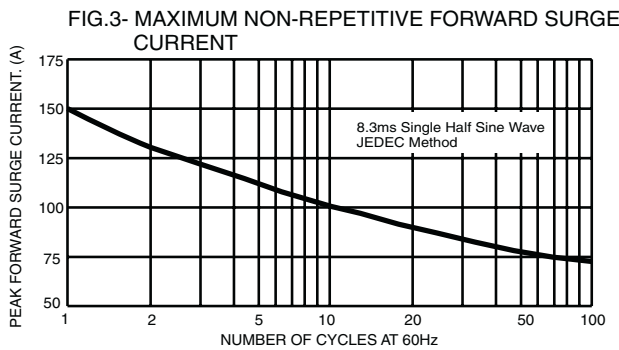
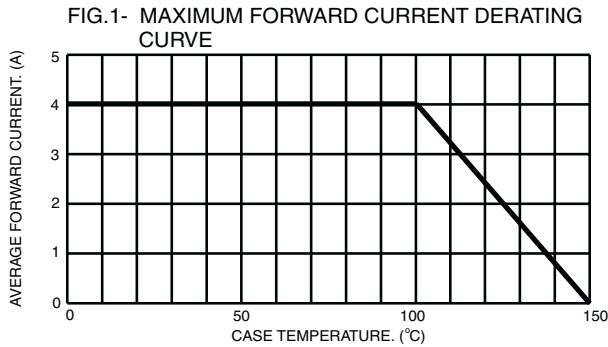
### Electrical Characteristics at Tamb = 25 °C

$V_F$	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 $\mu$ A 500 $\mu$ 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.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM**

