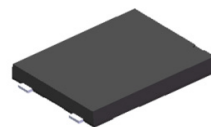
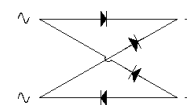


## Features

- Glass Passivated Ultra-Fast Bridge Rectifier
- Ideal for Automated Placement
- Low Profile - Max Height 1.2 mm
- Moisture Sensitivity: Level 1, Per J-STD-020
- High Temperature Soldering Guaranteed: 260°C/10 seconds



Case: E91



Schematic Daigram



**RoHS**  
COMPLIANT

## Maximum Ratings (T<sub>A</sub> = 25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	1200	V
Maximum RMS Voltage	V <sub>RMS</sub>	840	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	1200	V
Maximum Average Output Rectified Current	I <sub>o(AV)</sub>	1.0	A
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated Load	I <sub>FSM</sub>	30	A
Rating for Fusing (t ≤ 8.3ms)	I <sup>2</sup> t	4	A <sup>2</sup> s
Operating Junction and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55 to +150	°C

## Electrical Characteristics (T<sub>A</sub> = 25°C unless otherwise noted)

Parameter	Test Conditions	Symbol	Value	Unit
Maximum Instantaneous Forward Voltage	I <sub>F</sub> =0.5A	V <sub>F</sub>	1.70	V
	I <sub>F</sub> =1A		2.0	
Maximum DC Reverse Current at Rated DC Blocking Voltage	T <sub>A</sub> =25°C	I <sub>R</sub>	5.0	μA
	T <sub>A</sub> =125°C		250	
Maximum Reverse Recovery Time	I <sub>F</sub> =0.5A, I <sub>R</sub> =1.0A, I <sub>rr</sub> =0.25A	t <sub>rr</sub>	75	nS
Typical Junction Capacitance	4.0 V, 1 MHz	C <sub>J</sub>	20	pF

## Thermal Characteristics (T<sub>A</sub> = 25°C unless otherwise noted)

Parameter	Test Conditions	Symbol	GSEB108H	Unit
Typical Thermal Resistance <sup>1</sup>	Juntion to Ambient	R <sub>θJA</sub>	32	°C/W
	Juntion to Case	R <sub>θJC</sub>	9	

Note: 1)The thermal resistance from junction to ambient and case,mounted on glass epoxy FR-4 P.C.B

## Typical Electrical Characteristic Curves

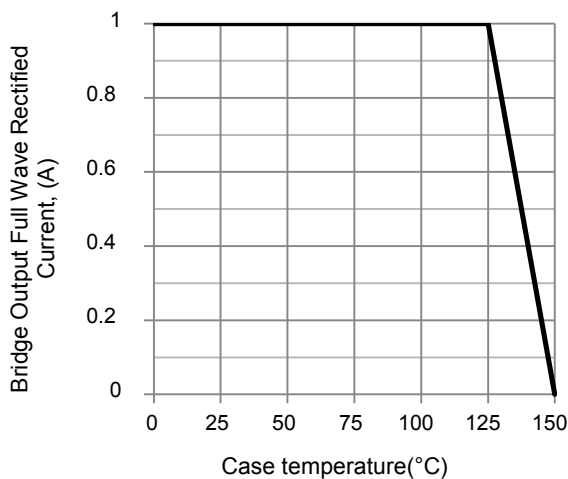


Figure 1. Forward Current Derating Curve

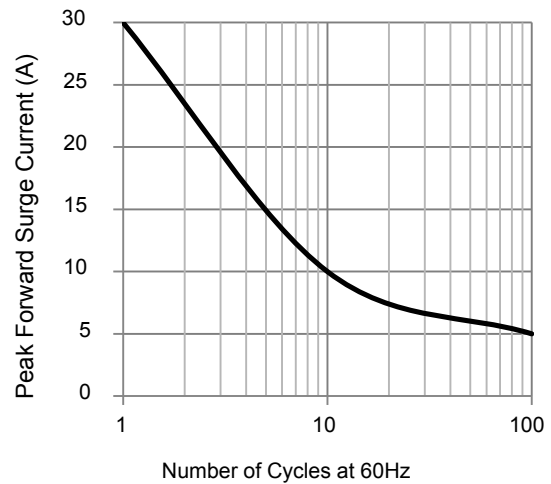


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

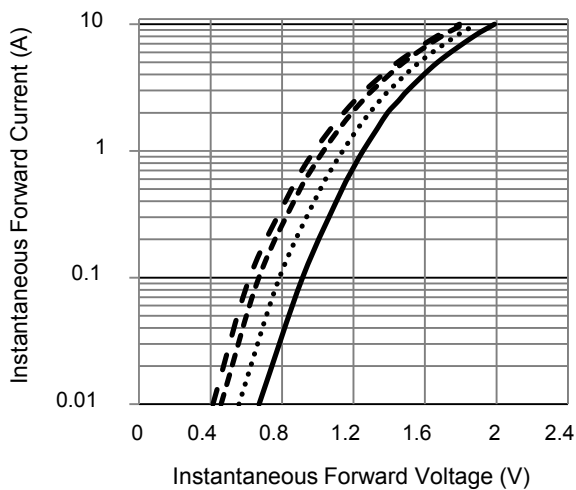


Figure 3. Typical Instantaneous Forward Characteristics

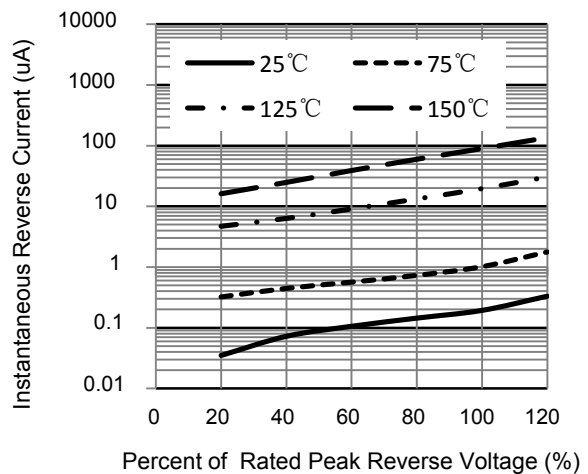
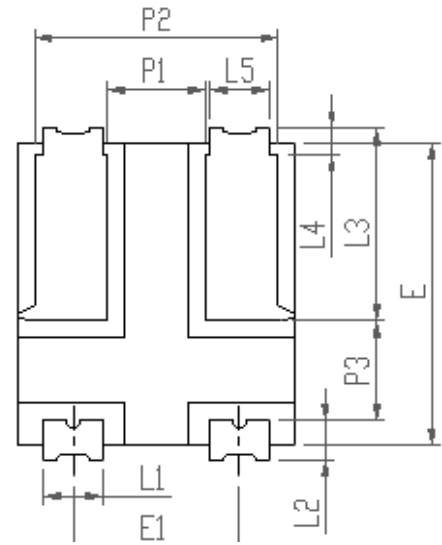
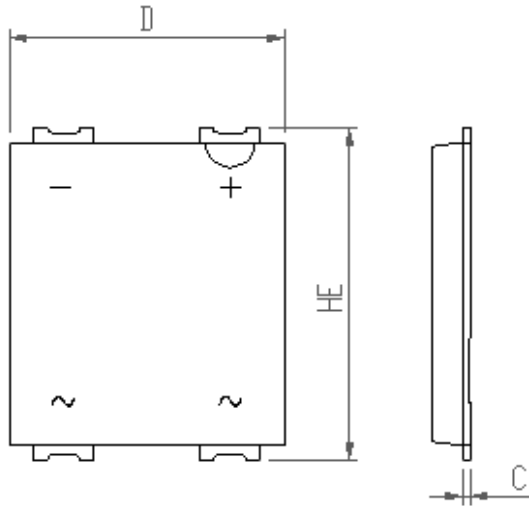


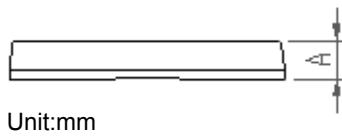
Figure 4. Typical Reverse Characteristics

## Package Outline Dimensions

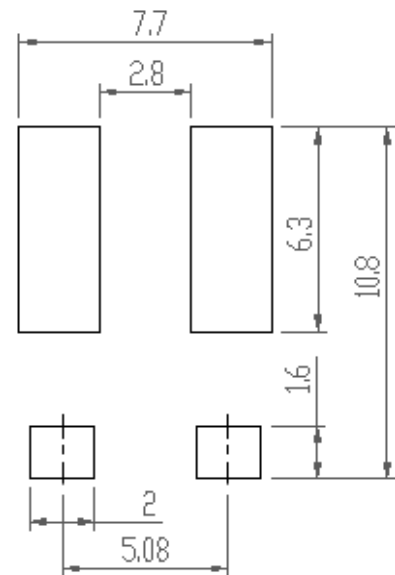
E91



Mounting Pad layout unit:mm



Dim	Min	Max	Dim	Min	Max
A	1.10	1.20	L2	1.0	1.4
C	0.2	0.4	L3	5.7	6.1
D	8.3	8.6	L4	0.6	1
HE	10.0	10.4	L5	1.6	2
E	9.1	9.5	P1	2.8	3.2
E1	5.08 REF		P2	7.2	7.6
L1	1.60	2.00	P3	3.1 REF	



## Marking Code

E91108H