

## Features

- Low current rectification
- Low forward voltage
- UL-94 V-0 / Green EMC



Schematic Diagram



DFN1006

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

Parameter	Symbol	Value	Unit
Reverse Voltage	V <sub>R</sub>	40	V
Average Forward Current	I <sub>F(AV)</sub>	1	A
Non-Repetitive Peak Forward Current <sup>1</sup>	I <sub>FSM</sub>	5	A
Power Dissipation	P <sub>D</sub>	250	mW
Junction Temperature Range	T <sub>J</sub>	-55 to +125	°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +125	°C

Note:

1. 8.3ms Single Half Sine - Wave.

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

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =100mA	-	-	0.39	V
		I <sub>F</sub> =500mA	-	-	0.50	
		I <sub>F</sub> =700mA	-	-	0.55	
		I <sub>F</sub> =1A	-	-	0.60	
Reverse Breakdown Voltage	V <sub>BR</sub>	I <sub>R</sub> =100uA	40	-	-	V
Reverse Leakage Current	I <sub>R</sub>	V <sub>R</sub> =10V	-	-	30	μA
		V <sub>R</sub> =40V	-	-	100	

## Typical Characteristic Curves ( $T_A=25^\circ\text{C}$ unless otherwise noted)

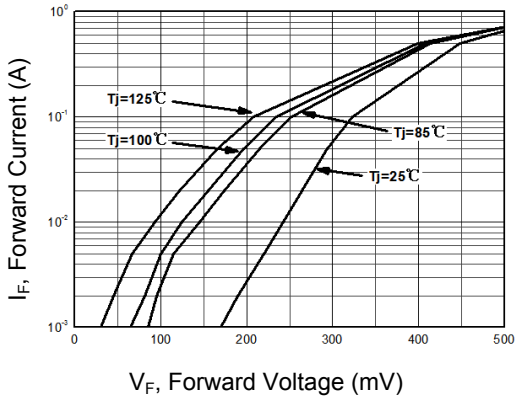


Figure 1. Typical Forward Characteristics

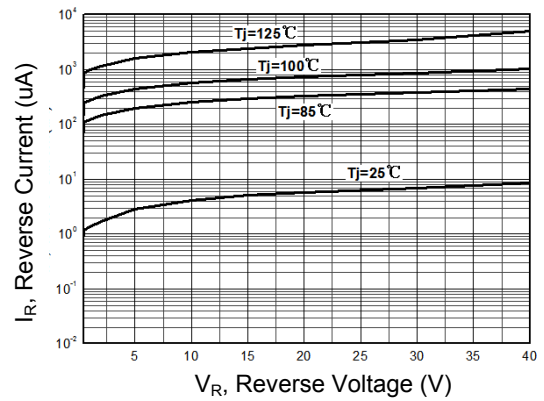
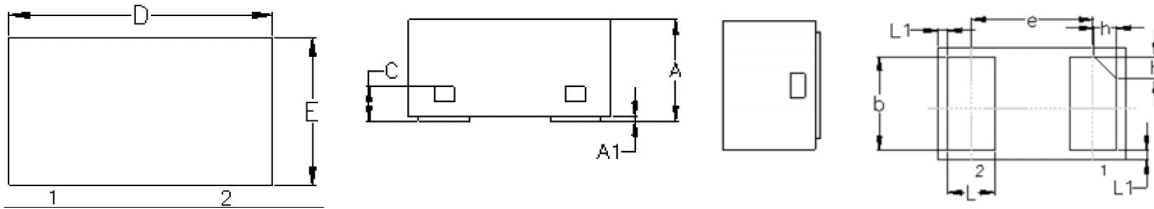


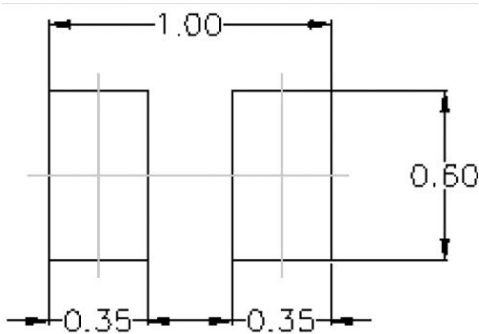
Figure 2. Typical Reverse Characteristics

## Package Outline Dimensions (DFN1006)



Symbol	Dimensions In Millimeters		
	Min	Nom	Max
A	0.45	0.50	0.55
A1	0.00	0.02	0.05
b	0.45	0.50	0.55
C	0.12	0.15	0.18
D	0.95	1.00	1.05
e	0.65 BSC.		
E	0.55	0.60	0.65
L	0.20	0.25	0.30
L1	0.05 REF.		
h	0.07	0.12	0.17

## Recommended Pad Layout



Unit: mm

## Order Information

Part Number	Package	Marking	Carrier	Quantity
GSBA1040LP	DFN1006	R4	Tape & Reel	10,000pcs / Reel