

Features

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



Schematic Diagram

DFN1006

Maximum Ratings ($T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	40	V
Average Forward Current	$I_{F(AV)}$	1	A
Non-Repetitive Peak Forward Current ¹	I_{FSM}	5	A
Power Dissipation	P_D	250	mW
Junction Temperature Range	T_J	-55 to +125	°C
Storage Temperature Range	T_{STG}	-55 to +125	°C

Note:

1. 8.3ms Single Half Sine - Wave.

Electrical Characteristics ($T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward Voltage	V_F	$I_F=100\text{mA}$	-	-	0.39	V
		$I_F=500\text{mA}$	-	-	0.50	
		$I_F=700\text{mA}$	-	-	0.55	
		$I_F=1\text{A}$	-	-	0.60	
Reverse Breakdown Voltage	V_{BR}	$I_R=100\mu\text{A}$	40	-	-	V
Reverse Leakage Current	I_R	$V_R=10\text{V}$	-	-	30	μA
		$V_R=40\text{V}$	-	-	100	

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

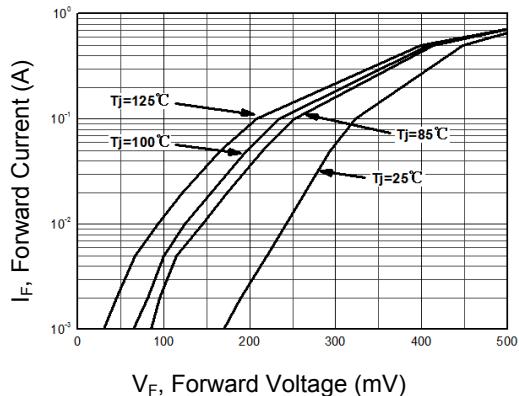


Figure 1. Typical Forward Characteristics

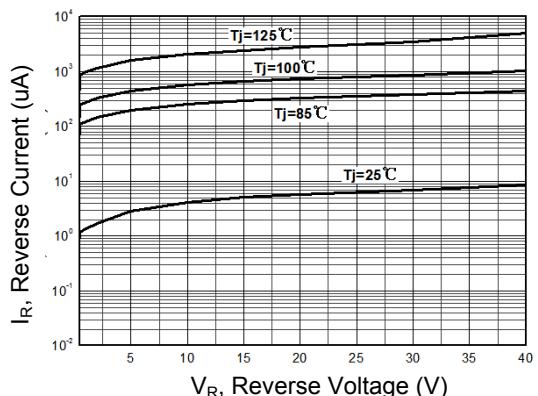
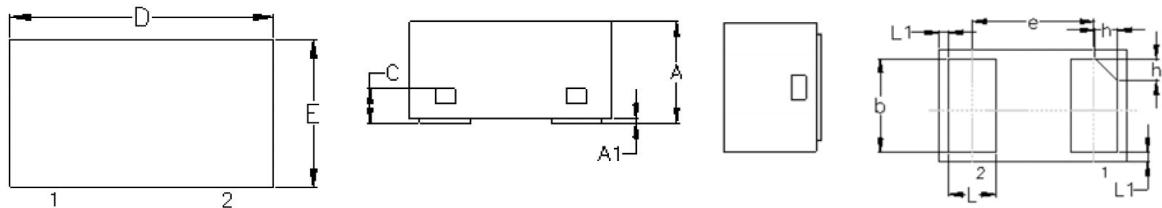


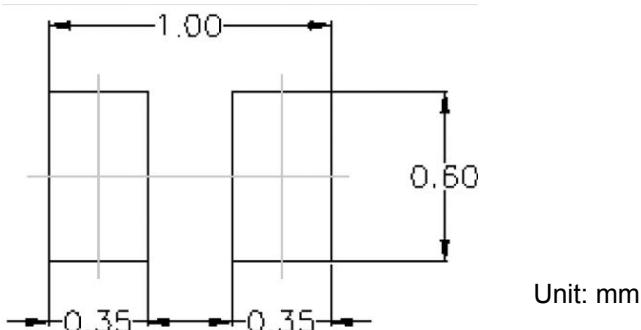
Figure 2. Typical Reverse Characteristics

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



Order Information

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