

Features

- Low current rectification
- Low forward voltage
- RoHS compliant
- UL-94V-0/green EMC
- Matte tin lead finish (Pb-Free)



DFN1006



Schematic Diagram

Absolute Maximum Ratings (T_A=25°C unless otherwise specified)

Parameter	Symbol	Value	Units
Repetitive Peak Reverse Voltage	V _{RRM}	30	V
DC Blocking Voltage	V _R	30	V
Continuous Forward Current	I _O	200	mA
Non-Repetitive Peak Forward Current ¹	I _{FSM}	1	A
Power Dissipation	P _D	150	mW
Junction Temperature	T _J	125	°C
Storage Temperature	T _{STG}	-55 to +125	°C

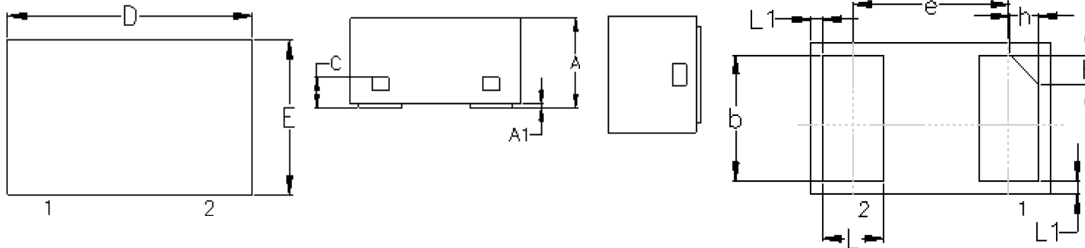
Note:

1. 8.3ms single half sine-wave.

Electrical Characteristics (T_A=25°C unless otherwise specified)

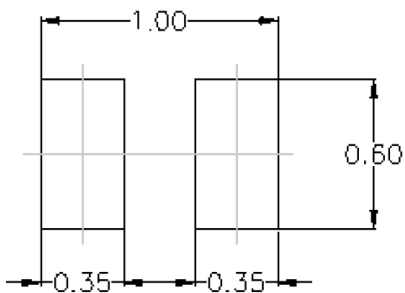
Parameter	Symbol	Conditions	Min	Max	Units
Forward Voltage	V _F	I _F =10mA	-	0.4	V
		I _F =200mA	-	0.6	V
Breakdown Voltage	BV _R	I _R =100μA	30	-	V
Reverse Current	I _R	V _R =10V	-	1	μA

Package Outline Dimensions (DFN1006)



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	0.45	0.55	0.018	0.022
A1	0.00	0.05	0.000	0.002
b	0.45	0.55	0.018	0.022
c	0.12	0.18	0.005	0.007
D	0.95	1.05	0.037	0.041
e	0.65 BSC		0.026 BSC	
E	0.55	0.65	0.022	0.026
L	0.20	0.30	0.008	0.012
L1	0.05 REF		0.002 REF	
h	0.07	0.17	0.003	0.007

Recommended Pad Layout



Note:

1. Controlling dimension: in millimeters
2. General tolerance: $\pm 0.05\text{mm}$
3. The pad layout is for reference purposes only

Order Information

Device	Package	Marking	Carrier	Quantity
GSRB520SD1	DFN1006	B	Tape & Reel	10,000pcs / Reel