

Features

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



DFN1006



Schematic Diagram

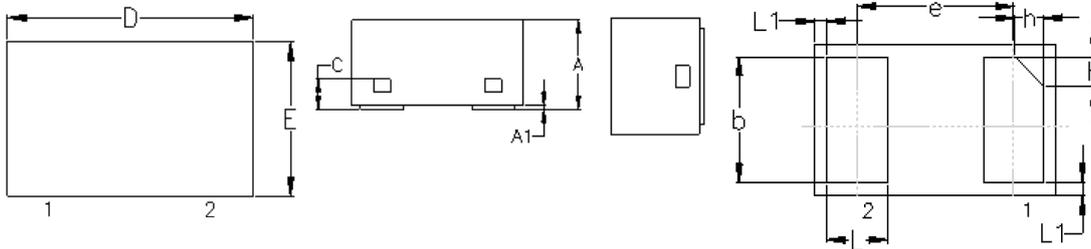
Absolute Maximum Ratings ($T_A=25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Value	Units
Reverse Voltage	V_R	40	V
Average Rectified Forward Current	I_O	200	mA
Peak Forward Surge Current	I_{FSM}	1	A
Junction Temperature	T_J	125	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-40 to +125	$^{\circ}\text{C}$

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

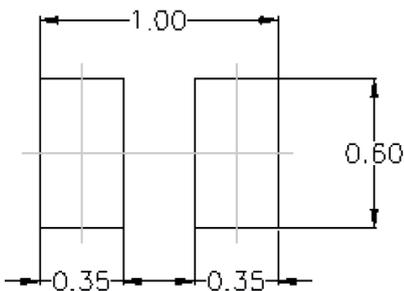
Parameter	Symbol	Conditions	Min	Typ	Max	Units
Forward Voltage	V_F	$I_F=10\text{mA}$	-	-	0.39	V
		$I_F=100\text{mA}$	-	-	0.55	
Reverse Current	I_R	$V_R=10\text{V}$	-	-	1	uA
		$V_R=40\text{V}$	-	-	10	

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	Packaging	SPQ
GSRB520B40	DFN1006	D1	Tape & Reel	10,000 Pcs / Reel