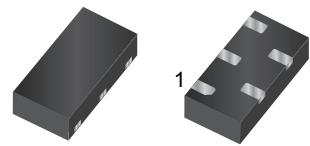


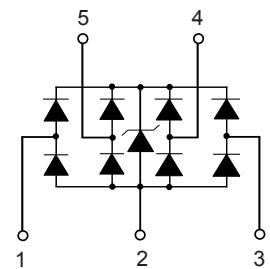
## Features

- Low leakage
- Ultra low capacitance
- Moisture sensitivity level 1
- Epoxy meets UL 94 V-0 flammability rating
- ESD Protection for high-speed data lines to:  
IEC 61000-4-2 ±15KV Contact, ±20KV Air



**DFN1308-5L**

Pin	Identification
1	I/O 1
2	Ground
3	I/O 2
4	I/O 3
5	I/O 4



**Schematic Diagram**

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

Parameter	Symbol	Value	Unit
Peak Pulse Power ( $T_P=8/20\mu\text{s}$ )	$P_{PP}$	65	W
Peak Pulse Current ( $T_P=8/20\mu\text{s}$ )	$I_{PP}$	5	A
Junction Temperature	$T_J$	-55 To +125	$^\circ\text{C}$
Storage Temperature	$T_{STG}$	-55 To +150	$^\circ\text{C}$

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

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Reverse Working Voltage	$V_{RWM}$	-	-	-	5	V
Reverse Breakdown Voltage	$V_{BR}$	$I_T=1\text{mA}$	6.5	7.5	9	V
Reverse Leakage Current	$I_R$	$V_R=5\text{V}$	-	10	100	nA
Clamping Voltage I/O-GND	$V_C$	$I_{PP}=1\text{A}, T_P=8/20\mu\text{s},$ Pin 1,3,4,5 to 2	-	-	10	V
		$I_{PP}=5\text{A}, T_P=8/20\mu\text{s},$ Pin 1,3,4,5 to 2	-	-	13	V
Junction Capacitance	$C_{I/O-GND}$	$V_R=0\text{V}, F=1\text{MHz},$ Pin Capacitance to GND	-	0.6	0.7	pF
Junction Capacitance	$C_{I/O-I/O}$	$V_R=0\text{V}, F=1\text{MHz},$ Pin Capacitance to I/O	-	0.3	0.35	pF

### Typical Characteristic Curves

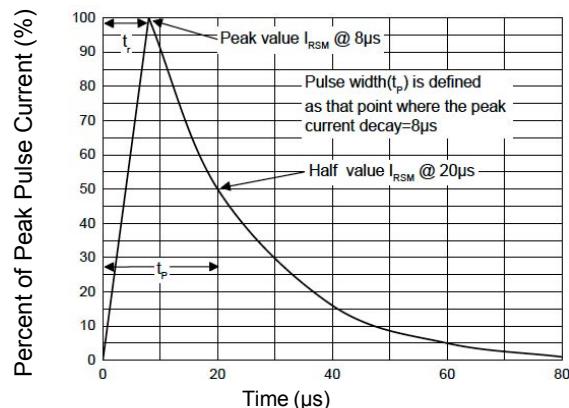


Figure 1. 8x20µs Pulse Waveform

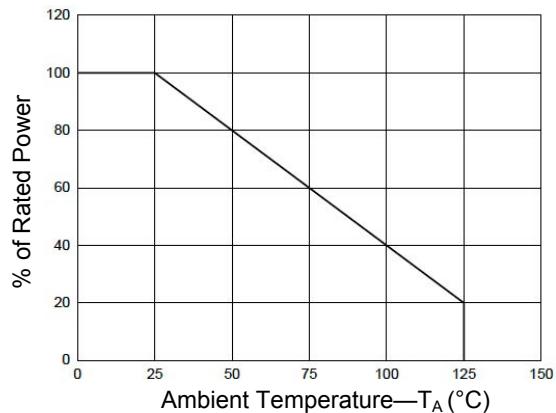


Figure 2. Pulse Derating Curve

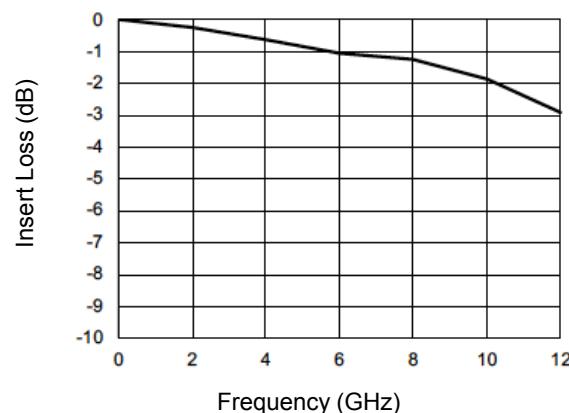
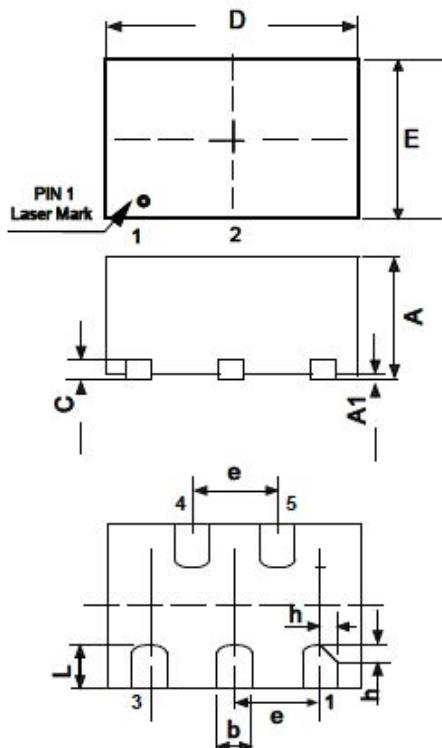


Figure 3. Insert Loss vs. Frequency (IO to GND)

### Package Outline Dimensions (DFN1308-5L)



Symbol	Dimensions in Inches		Dimensions in Millimeters	
	Min	Max	Min	Max
A	0.012	0.016	0.300	0.400
A1	0.000	0.002	0.000	0.050
b	0.006	0.010	0.150	0.250
C	0.005 TYP		0.127 TYP	
D	0.047	0.056	1.200	1.400
E	0.028	0.036	0.700	0.900
e	0.02 TYP		0.500 TYP	
h	0.004	0.006	0.100	0.150
L	0.008	0.012	0.200	0.300

### Order Information

Device	Package	Marking	Quantity	HSF Status
GSEHP5U006	DFN1308-5L	5P	5Kpcs/Reel	RoHS Compliant