Discription

The SIG8X5LST5G is designed top rotect voltage sensitive components from ESD.

Excellent clamping capability, low leakage, and fast response time ,make these parts ideal for ESD protection on designs where board space is at a premium. Because of its small size, it is suited for use in cellular phones, MP3 players, digital cameras and many other portable applications where board spaceiat a premium.



SOD882

Applications

- Cellular phones audio
- MP3 players
- Digital cameras
- Portable applicationss
- mobile telephone

Features

- Low Leakage
- Response Time is Typically < 1 ns
- ESD Rating of Class 3 (> 16 kV) per Human Body Model
- IEC61000-4-2 Level 4 ESD Protection
- We declare that the material of product compliant with RoHS requirements and Halogen Free.

MAXIMUM RATINGS

Rating	Symbol	Value	Unit
IEC 61000-4-2 (ESD) Air discharge Contact discharge		±20 ±15	kV kV
ESD Voltage Per Human Body Model		16	kV
Total Power Dissipation on FR-5 Board (Note 1)	PD	200	mW
@ T _A =25℃			
Junction and Storage Temperature Range	TJ,TSTTh	-55 to 150	$^{\circ}$
Lead Solder Temperature – Maximum (10	TL	260	$^{\circ}$
Second Duration)			

Stresses exceeding Maximum Ratings may damage the device. Maximum Rating are stress ratings of Functional operation above the Recommended Operating Conditions is not implied. Extended exposure b stresses above the Recommended Operating Conditions may affect device reliability.

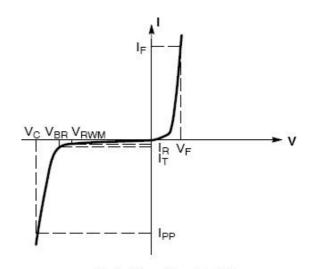
1. FR-5 = 1.0*0.75*0.62 in.

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ELECTRICAL CHARACTERISTICS

(T_A = 25°C unless otherwise noted)

Symbol	Parameter			
I _{PP}	Maximum Reverse Peak Pulse Current			
V _C	Clamping Voltage @ IPP			
V _{RWM}	Working Peak Reverse Voltage			
I _R	Maximum Reverse Leakage Current @ V _{RWM}			
V _{BR}	Breakdown Voltage @ I _T			
lτ	Test Current			
P _{pk}	Peak Power Dissipation			
С	Capacitance @ V _R = 0 and f = 1.0 MHz			



Uni-Directional TVS

ELECTRICAL CHARACTERISTICS

	V _{RWM}	I _R (μΑ) @ V _{RWM}	V _{BR} (V) @ I _T (Note 2)	Ιτ	V _C (V) @ I _{PP} = 1 A (Note 3)	Vc (V) @MAX IPP (Note 3)	IPP(A) (Note 3)	Ppk(W) (Note 3)	C (pF)	
Device	Max	Max	Min	mA	Max	Max	Max	Max	Тур	Max
SIG8X5LST5G	5	0.5	6	1.0	12	20	4	60	0.5	0.9

Other voltage available upon request.

- 3. Surge current waveform per Figure 1.

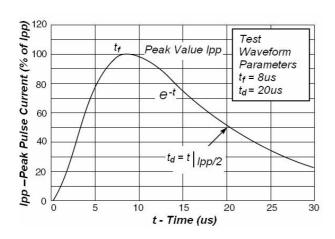


Fig1. Pulse Waveform

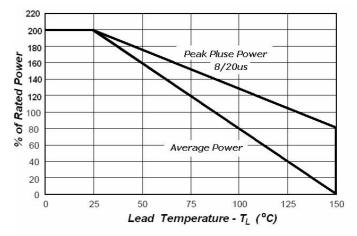


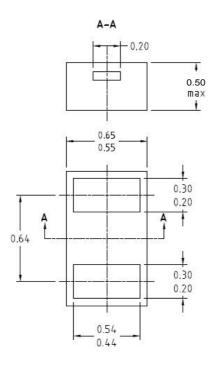
Fig2.Power Derating Curve

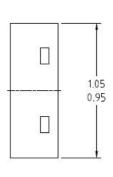
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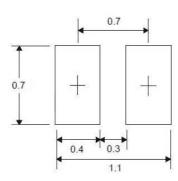
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DIMENSION OUTLINE:

Unit:mm







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