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PRODUCT DATASHEET

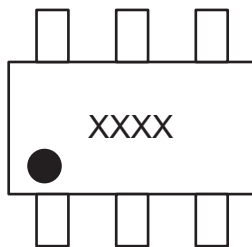
Electro-Static Discharge

JET563-5V-L5 ESD

Features

- Package: SOT-563
- Protects up to 5 lines
- Low leakage: nA level
- Low clamping voltage
- Excellent surge protection (25W at 8/20 μ s)
- Complies with following standards:
 - IEC 61000-4-2 (ESD) immunity test
Air discharge: ± 16 kV
Contact discharge: ± 16 kV
 - IEC61000-4-5 (Lightning) 1.8A (8/20 μ s)
- RoHS compliant

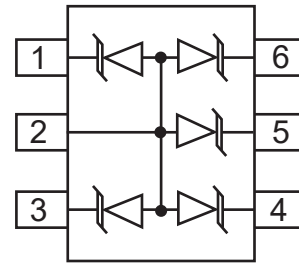
Pin Description



Applications

- Audio Players
- Peripherals
- Printers
- Desktops PC , Laptops and Servers
- Microprocessor Based Equipment
- Cell Phone Handsets and Accessories
- Set Top Box

Schematic Diagram



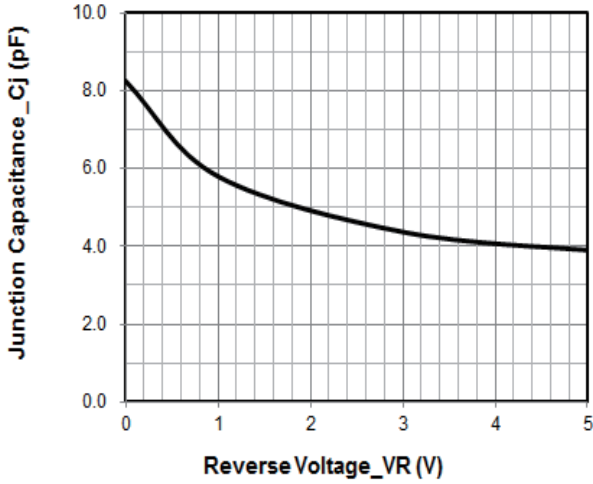
Limiting Values($T_A = 25^\circ\text{C}$, unless otherwise specified)

Symbol	Parameter	Conditions	Value	Unit
V _{ESD}	Electrostatic Discharge Voltage	IEC 61000-4-2;Contact Discharge	± 16	kV
		IEC 61000-4-2;Air Discharge	± 16	kV
P _{PP}	Peak Pulse Power	t _P =8/20 μ s	25	W
I _{PP}	Peak Pulse Current	t _P =8/20 μ s	1.8	A
T _J	Operating Temperature Range	-	-55 to +125	$^\circ\text{C}$
T _{stg}	Storage Temperature Range	-	-55 to +150	$^\circ\text{C}$

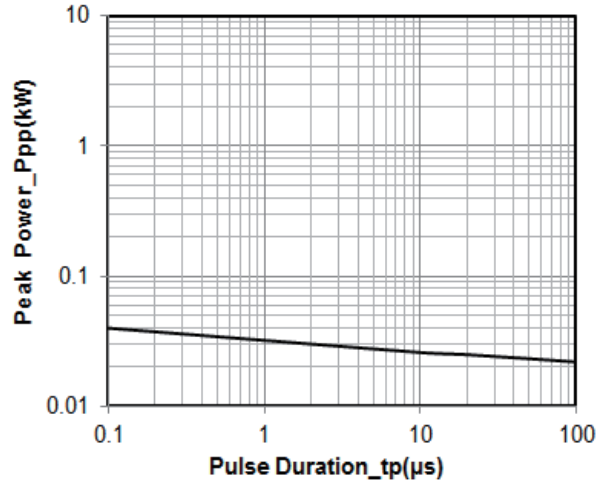
Electrical Characteristics($T_A = 25^\circ\text{C}$, unless otherwise specified)

Symbol	Parameter	Conditions	Min	Typ.	Max	Unit
V _{RWM}	Reverse Working Voltage	T _A =25 $^\circ\text{C}$	-	-	5	V
V _{BR}	Breakdown Voltage	I _T =1mA	6	-	8.5	V
I _R	Reverse Leakage Current	V _{RWM} =5V	-	-	0.2	μA
V _C	Clamping Voltage	I _{PP} =1A(8x20 μ s pulse)	-	-	10	V
V _C	Clamping Voltage	I _{PP} =1.8A(8x20 μ s pulse)	-	-	12	V
C _J	Junction Capacitance	V _R =0V,f=1 MHz	-	8.3	-	pF

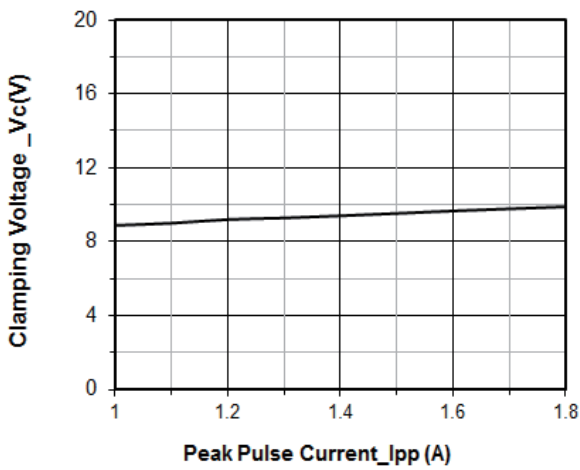
Typical Characteristics



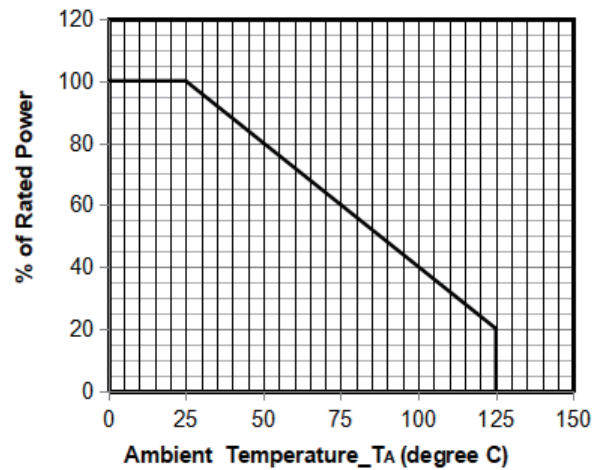
Junction Capacitance vs. Reverse Voltage



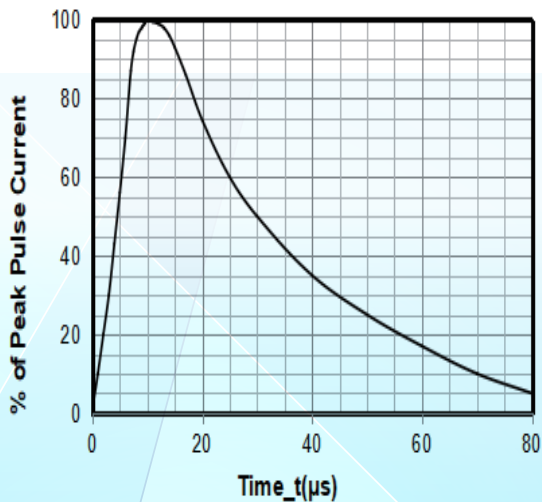
Peak Pulse Power vs. Pulse Time



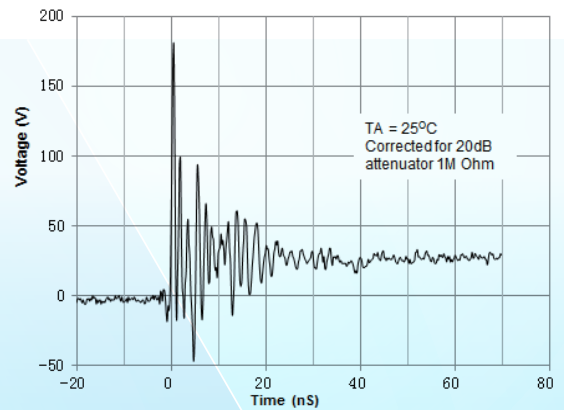
Clamping Voltage vs. Peak Pulse Current (tp = 8/20 μs)



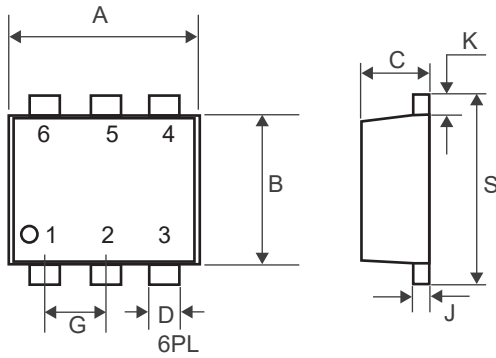
Power Derating Curve



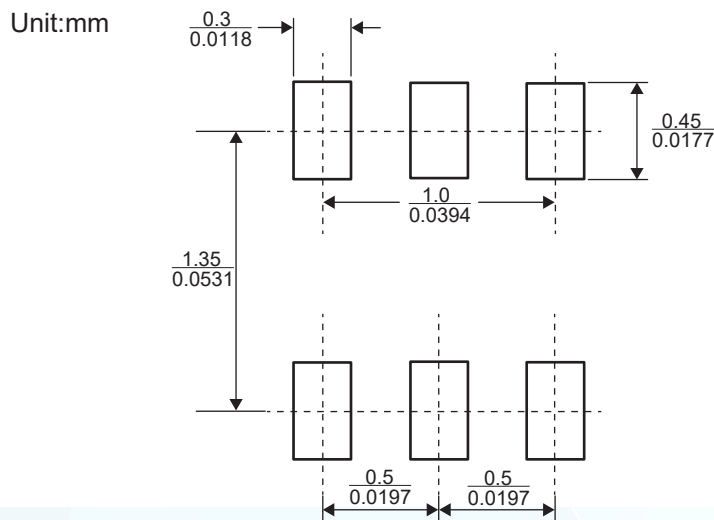
8x20 μs Pulse Waveform



ESD Clamping Voltage
8 kV Contact per IEC61000-4-2

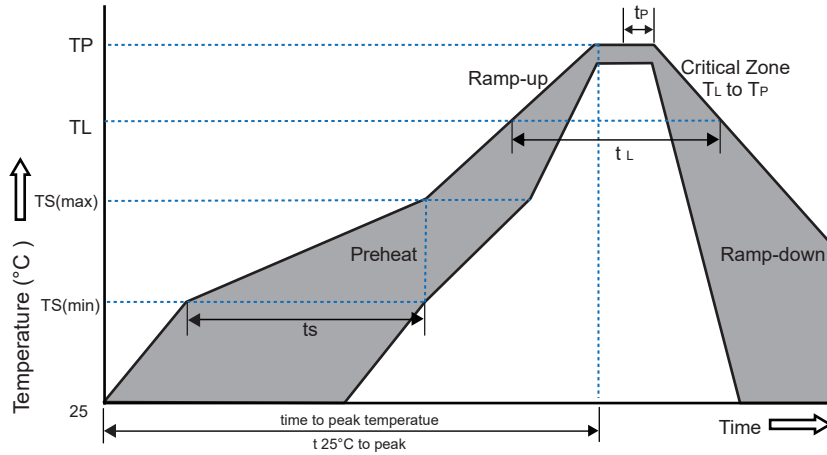
Physical Dimensions(mm.)


Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	1.50	1.70	0.059	0.067
B	1.10	1.30	0.043	0.051
C	0.50	0.60	0.020	0.024
D	0.17	0.27	0.007	0.011
G	0.5 BSC		0.02 BSC	
J	0.08	0.18	0.003	0.007
K	0.10	0.30	0.004	0.012
S	1.50	1.70	0.059	0.067

Suggested Land Pattern

Packaging Quantity

Part Number	Delivery Form	Delivery Quantity
JET563-5V-L5	7"T&R	3,000

Soldering Parameters



Reflow Condition		Pb-Free Assembly
Pre-heat	-Temperature Min($T_{s(min)}$)	+150°C
	-Temperature Max($T_{s(max)}$)	+200°C
	-Time(Min to Max)(t_s)	60~180 secs.
Average ramp up rate (Liquid us Temp(T_L) to peak)		3°C/sec. Max
Ts(max) to T_L - Ramp-up Rate		3°C/sec. Max
Reflow	-Temperature(T_L)(Liquid us)	+217°C
	-Temperature (t_L)	60~150 secs.
Peak Temp (T_P)		+260(+0/-5)°C
Time within 5°C of actual Peak Temp (t_P)		30 secs. Max
Ramp-down Rate		6°C/sec. Max
xTime 25°C to Peak Temp (TP)		8 min. Max
Do not exceed		+260°C

Part Number System

JE T563 - 5V - L 5

