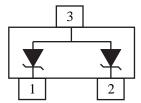


Features

- 320 Watts peak pulse power (t_P = 8/20µs)
- SOT-23 package
- Protects one bidirectional or two unidirectional lines
- Fast response time,typically < 1 ns
- Excellent clamping voltage
- Low leakage current
- IEC 61000-4-2 ±30kV (Air) ESD protection
- IEC 61000-4-2 ±30kV (Contact) ESD protection
- IEC 61000-4-4 40A (5/50ns) EFT protection
- RoHS compliant

Applications

SOT-23



Schematic Diagram

Servers, Notebooks, and Desktop Pcs

Portable Electronics

- Set-Top Box
- Communication Systems

Absolute Maximum Ratings

(T_A=25°C, Unless otherwise specified.)

Cellular Handsets and Accessories

Control & Monitoring Systems

Rating	Symbols	Value	Units
Peak Pulse Power (t _P =8/20µS)	P _{PP}	320	W
Peak Pulse Current (tp=8/20µS)	IPP	20	А
Operating Temperature	TJ	-55 to +150	°C
Storage temperature	T _{STG}	-50 to +150	°C

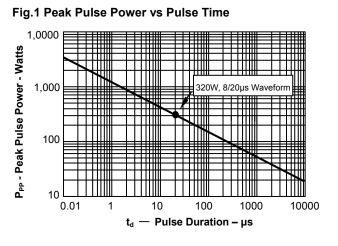
Electrical Characteristics

Parameter	Symbols	Conditions	Min Typ		Max	Units
Reverse stand-off Voltage	V _{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	6		7.4	V
Reverse Leakage Current	I _R	V _{RWM} =5V,T=25℃			1	μA
Clamping Voltage	Vc	I _{PP} =10Α,T _P =8/20μS			12	V
Clamping Voltage	Vc	I _{PP} =20A ,T _P =8/20μS			16	V
Junction Capacitance	CJ	V _R =0V,f=1MHz		70		pF

SES5VT23-3U



Typical Characteristic Curves





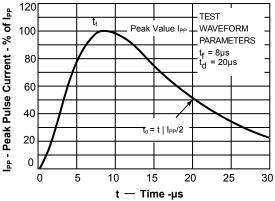
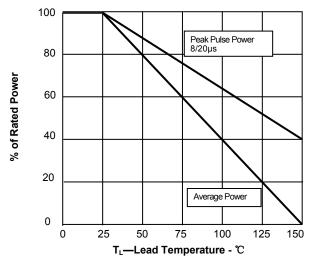
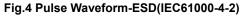
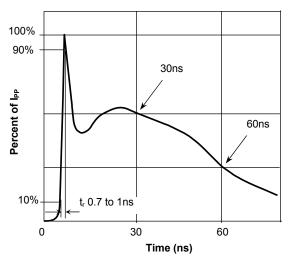


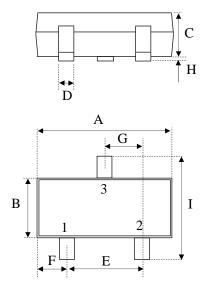
Fig.3 Power Derating Curve

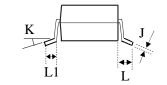






Product Dimensions

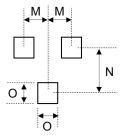




Dim	millmeters		
DIII	min	max	
А	2.80	3.04	
В	1.20	1.40	
С	0.89	1.11	
D	0.37	0.50	
Е	1.78	2.04	
F	0.45	0.60	
G	0.89	1.02	
Н	0.013	0.100	
Ι	2.10	2.50	
J	0.085	0.177	
Κ	0°	10°	
L	0.45	0.60	
L1	0.30	0.60	

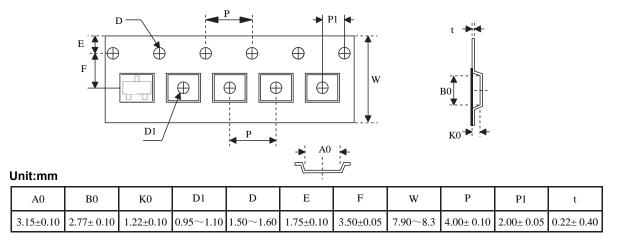


PAD Dimensions

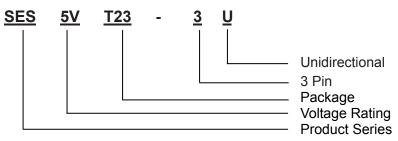


Dim	millmeters		
0	0.85		
М	0.95		
Ν	2.00		

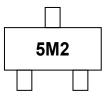
Package Information



Part Number System



Marking





Order Information

Device	Package	Net Weight	Carrier	Quantity	HSF Status
SES5VT23-3U	SOT-23	0.0090g	Tape & Reel	3000pcs	RoHS compliant

Revision history

Date	Revision	Description of changes
12-November-2012	A0	First issue

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