

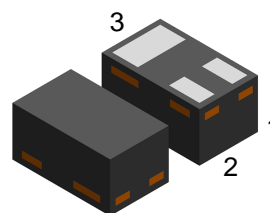
## Features

- 99 Watts peak pulse power ( $t_P = 8/20\mu s$ )
- SOT-883 package
- Protects two unidirectional lines
- Fast response time, typically  $< 1\text{ ns}$
- Excellent clamping voltage
- Low leakage current
- IEC 61000-4-2  $\pm 15\text{ kV}$  (Air) ESD protection
- IEC 61000-4-2  $\pm 8\text{ kV}$  (Contact) ESD protection
- IEC 61000-4-4 40A (5/50ns) EFT protection
- IEC 61000-4-5 9A (8/20us) Surge protection
- RoHS compliant

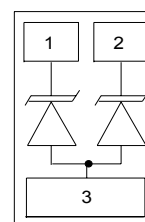
## Applications

- Cellular Handsets and Accessories
- Portable Electronics
- Control & Monitoring Systems
- Servers, Notebooks
- Set-Top Box
- Communication Systems

## SES5VT883-3U



**SOT-883**



**Schematic Diagram**

## Absolute Maximum Ratings

( $T_A = 25^\circ\text{C}$ , Unless otherwise specified.)

Rating	Symbols	Value	Units
Peak Pulse Power ( $t_P = 8/20\mu s$ )	$P_{PP}$	99	W
Peak Pulse Current ( $t_P = 8/20\mu s$ )	$I_{PP}$	9	A
Operating Temperature	$T_J$	-55 to +125	$^\circ\text{C}$
Storage temperature	$T_{STG}$	-55 to +150	$^\circ\text{C}$

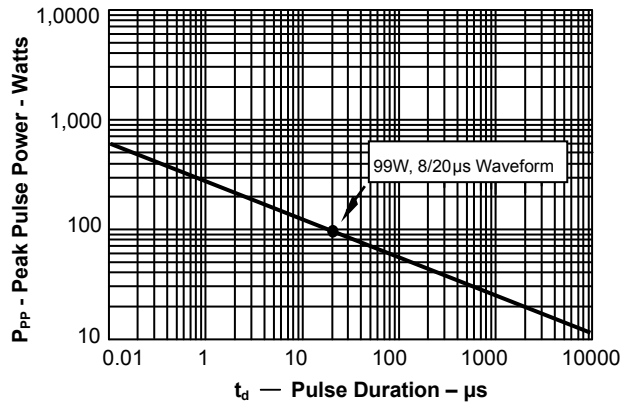
## Electrical Characteristics

( $T_A = 25^\circ\text{C}$ , Unless otherwise specified.)

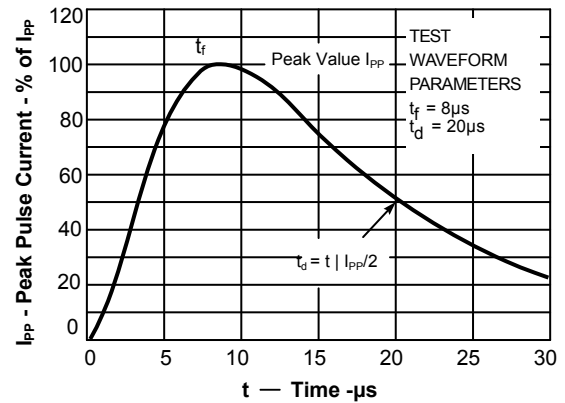
Parameter	Symbols	Conditions	Min	Typ	Max	Units
Reverse stand-off Voltage	$V_{RWM}$				5	V
Reverse Breakdown Voltage	$V_{BR}$	$I_T = 1\text{ mA}$	6			V
Reverse Leakage Current	$I_R$	$V_R = 5\text{ V}$			1	$\mu\text{A}$
Clamping Voltage	$V_C$	$I_{PP} = 9\text{ A}$ , $T_P = 8/20\mu s$			11	V
Junction Capacitance	$C_J$	(pin 1,2 to pin 3) $V_R = 0\text{ V}$ , $f = 1\text{ MHz}$		40		pF

## Typical Characteristic Curves

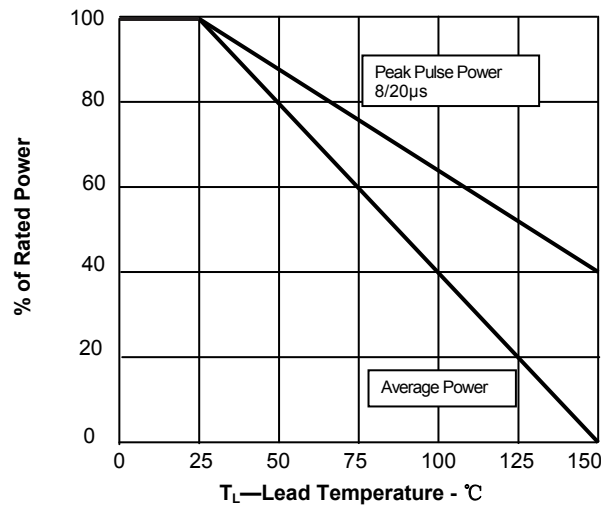
**Fig.1 Peak Pulse Power vs Pulse Time**



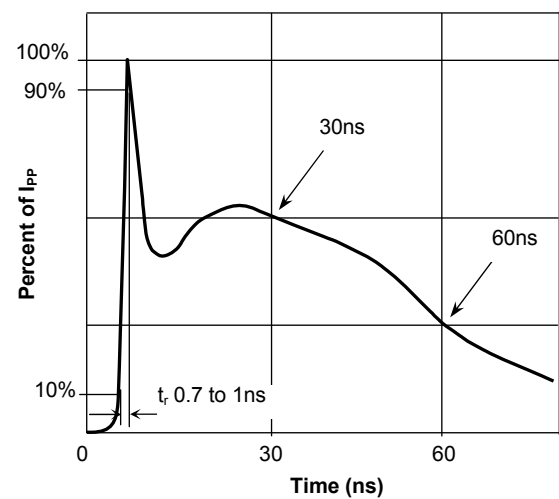
**Fig.2 Pulse Waveform-8/20 $\mu s$**



**Fig.3 Power Derating Curve**

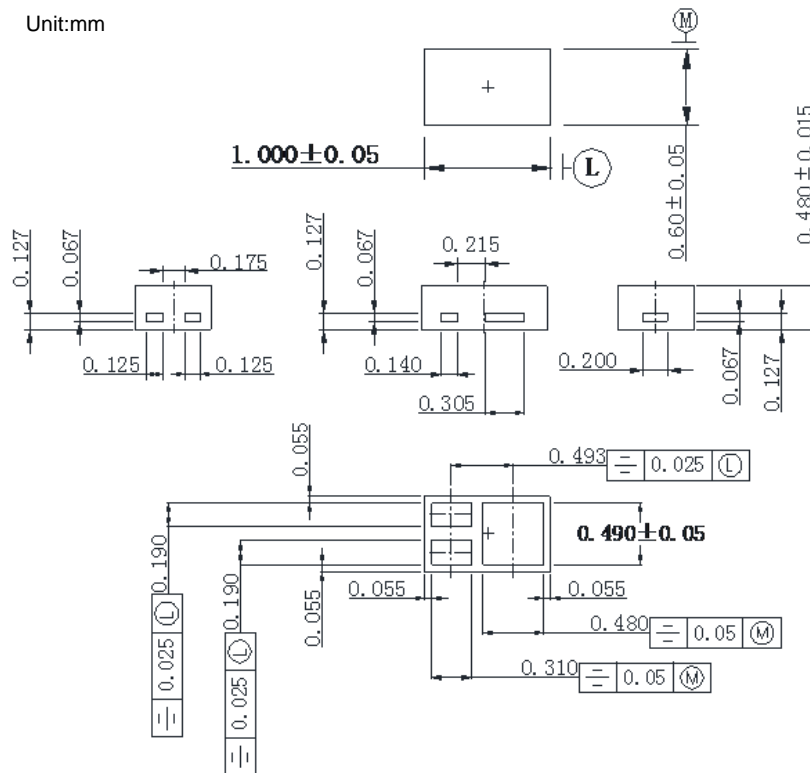


**Fig.4 Pulse Waveform-ESD (IEC61000-4-2)**

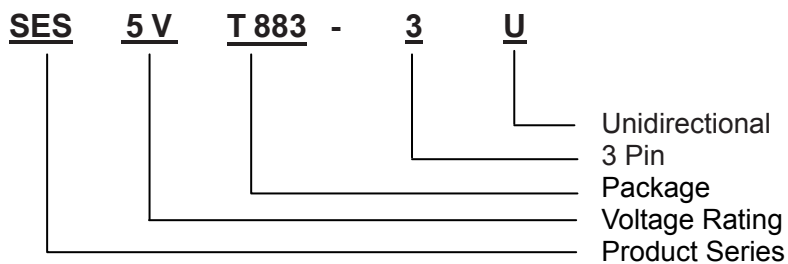


## Product Dimensions

Unit:mm



## Part Number System



## Order Information

Device	Package	Carrier	Quantity	HSF Status
SES5VT883-3U	SOT-883	Tape & Reel	10000pcs	RoHS compliant

## Revision history

Date	Revision	Description of changes
12-November-2014	A0	First issue

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