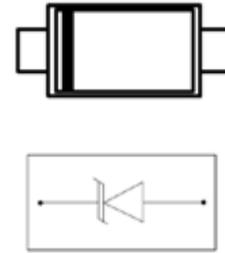


Feature

- 200W peak pulse power per line ($t_p = 8/20\mu s$)
- SOD-523 package
- Replacement for MLV(0603)
- Unidirectional configurations
- Response Time is Typically < 1 ns
- ESD protection > 40 kV
- Low clamping voltage
- RoHS compliant
- Transient protection for data lines to IEC 61000-4-2(ESD) ± 15 KV(air), ± 8 KV(contact); IEC 61000-4-4 (EFT) 40A (5/50ns)



Applications

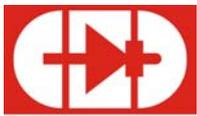
- Cellular phones
- Portable devices
- Digital cameras
- Power supplies

Electrical characteristics per line@25°C(unless otherwise specified)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Reverse stand-off voltage	V_{RWM}				5	V
Reverse Breakdown voltage	V_{BR}	$I_t = 1mA$	6.2			V
Reverse Leakage Current	I_R	$V_{RWM} = 5V$ $T=25^\circ C$			0.05	μA
Clamping Voltage	V_C	$I_{PP} = 5A$ $t_p = 8/20\mu s$			9.8	V
Clamping Voltage	V_C	$I_{PP}=9.4A$ $t_p = 8/20\mu s$			12.0	V
Junction Capacitance	C_j	$V_R=0V$ $f = 1MHz$		100		pF

Absolute maximum rating @25°C

Rating	Symbol	Value	Units
Unidirectional Peak Pulse Power ($t_p=8/20\mu s$)	P_{pp}	200	W
Operating Temperature	T_J	-55 to +150	$^\circ C$
Storage Temperature	T_{STG}	-55 to +150	$^\circ C$



GOOD-ARK

ESD Protector

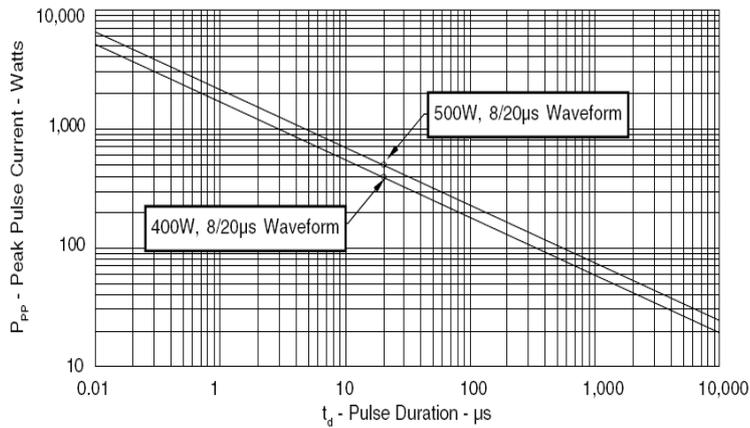
SES Series

SES5VD523-2U

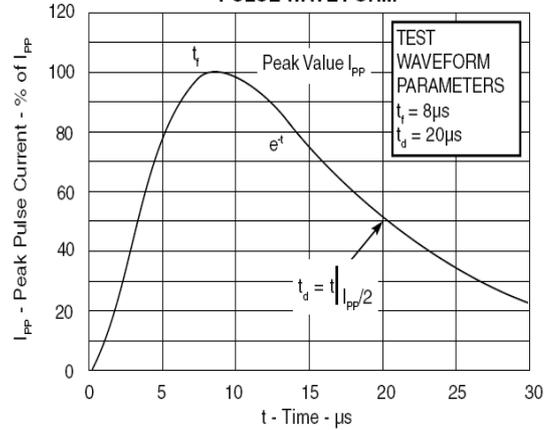
ROHS

Typical Characteristics

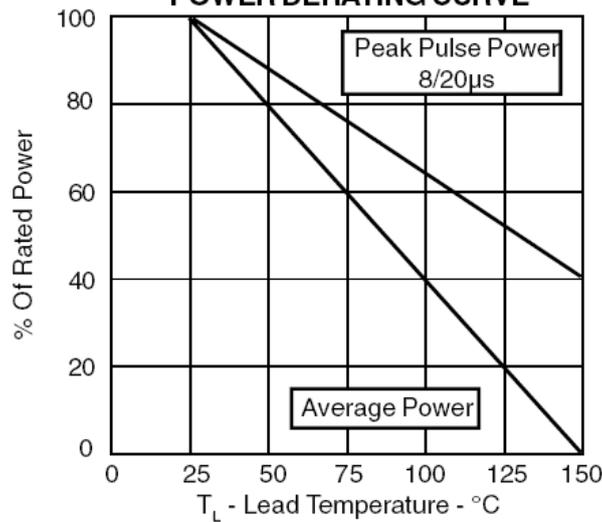
**FIGURE 1
PEAK PULSE POWER VS PULSE TIME**



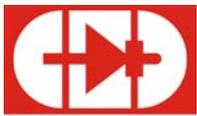
**FIGURE 2
PULSE WAVEFORM**



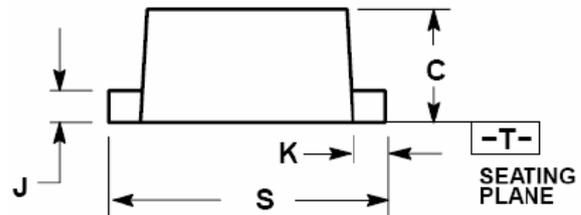
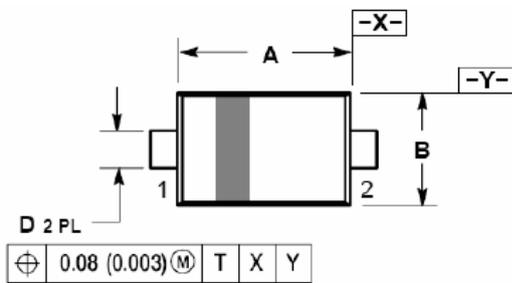
**FIGURE 3
POWER DERATING CURVE**



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Product dimension and pad size



Dim	Millimeters			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	1.10	1.20	1.30	0.043	0.047	0.051
B	0.70	0.80	0.90	0.028	0.032	0.035
C	0.50	0.60	0.70	0.020	0.024	0.028
D	0.25	0.30	0.35	0.010	0.012	0.014
J	0.07	0.14	0.20	0.0028	0.0055	0.0079
K	0.15	0.20	0.25	0.006	0.008	0.010
S	1.50	1.60	1.70	0.059	0.063	0.067

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Revision History

Revision	Date	Changes
1.0	2008-7-3	-