

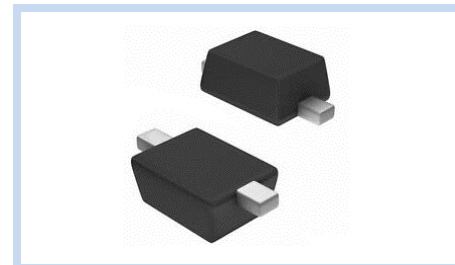
ESD Suppressor AEC-Q101 7V Unidirectional SOD-523

ME71U22V7S523A

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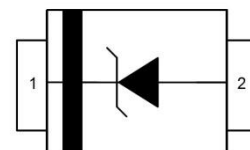
FEATURE

- IEC 61000-4-2 ESD: $\pm 25\text{KV}$ (Air) $\pm 25\text{KV}$ (Contact)
- ESD Protection for one Unidirectional Channel
- Low Clamping Voltage
- Low Leakage Current
- AEC-Q101 Qualified



APPLICATION

- Cellular Handsets & Accessories
- Personal Digital Assistants (PDAs)
- Notebooks & Handhelds
- Cordless Phones
- Peripherals
- MP3 Players



MAXIMUM RATINGS AND CHARACTERISTICS

Parameter	Symbol	Value	Unit
ESD Voltage (Contact discharge)	V_{ESD}	± 25	KV
ESD Voltage (Air discharge)		± 25	
Peak Pulse Current ($t_p=8/20\mu\text{s}$)	I_{PP}	8.8	A
Peak Pulse Power ($t_p=8/20\mu\text{s}$)	P_{PP}	120	W
Operating & Storage Temperature Range	T_J, T_{STG}	$-55 \sim +150$	$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS

Parameter	Condition	Symbol	Min.	Typ.	Max.	Unit
Reverse Stand-Off Voltage	--	V_{RWM}	--	--	7	V
Reverse Breakdown Voltage	$I_{\text{BR}}=1\text{mA}$	V_{BR}	7.5	--	--	V
Reverse Leakage Current	$V_R=7\text{V}$	I_{R}	--	--	150	nA
Clamping Voltage	$I_{\text{PP}}=8.8\text{A}$, $t_p=8/20\mu\text{s}$	V_{C}	--	--	22.7	V
Off State Junction Capacitance	$V_{\text{dc}}=0$, Bias, $f=1\text{MHz}$	C_{J}	--	--	85	pF

Notes: $T_J=25^{\circ}\text{C}$ unless otherwise specified

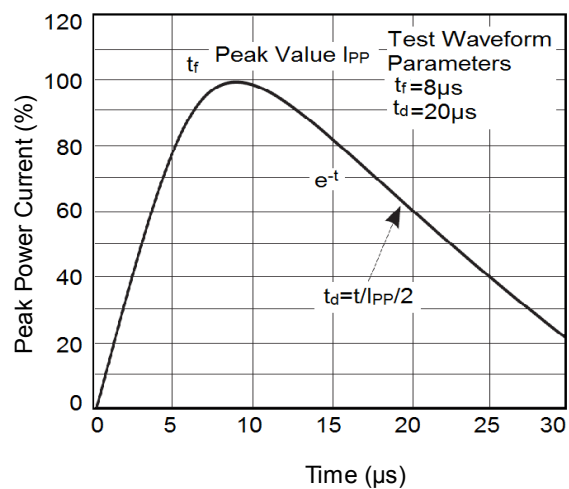
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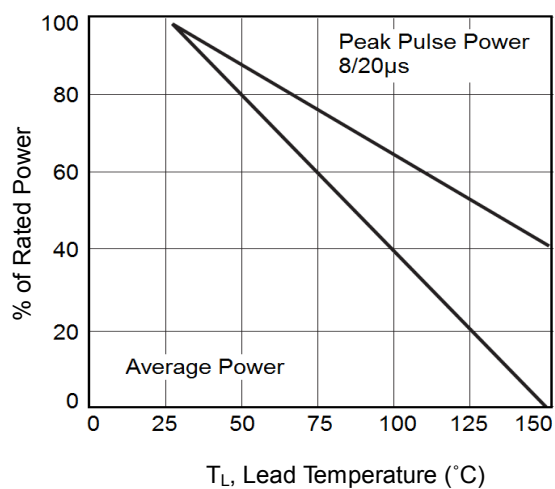
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CHARACTERISTIC CURVES

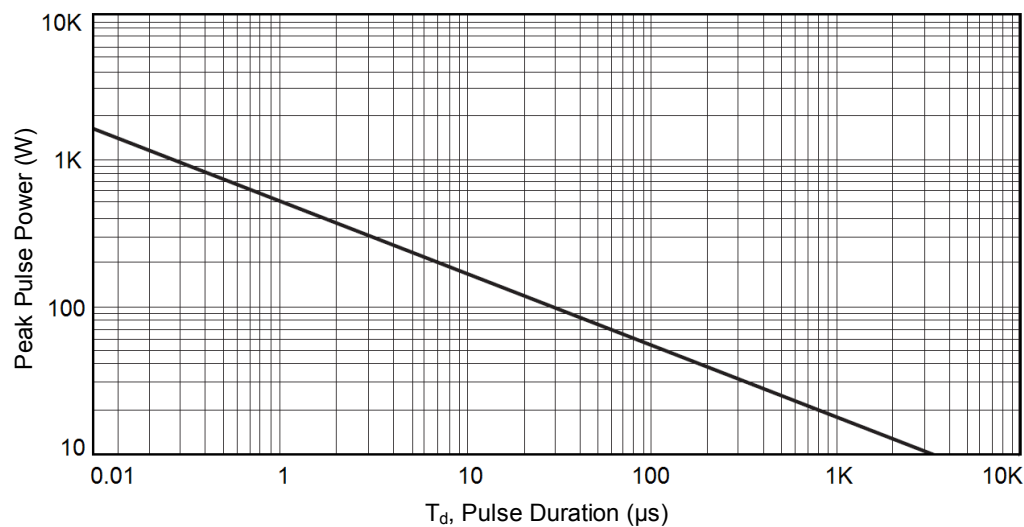
Pulse Waveforms



Power Derating Curve



Peak Pulse Power vs Pulse Time



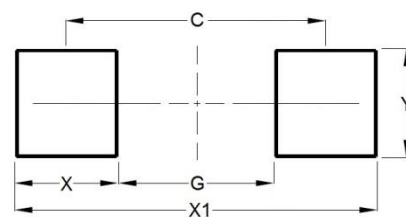
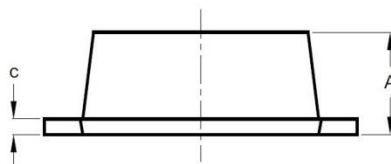
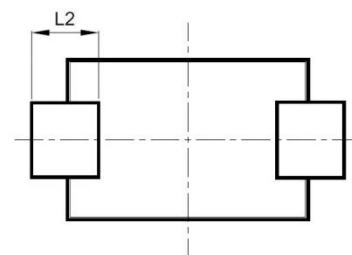
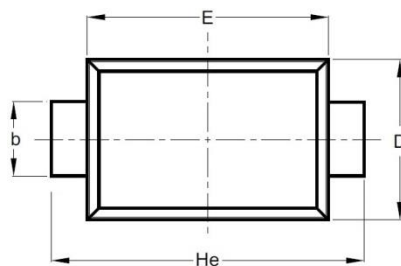
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DIMENSIONS AND RECOMMENDED LAND PATTERN

Item	Min (mm)	Max (mm)
A	0.55	0.65
b	0.25	0.35
C	0.05	0.15
D	0.75	0.85
E	1.15	1.25
He	1.50	1.70
L2	0.20	0.20
C	1.40	1.40
G	0.80	0.80
X	0.60	0.60
X1	2.00	2.00
Y	0.70	0.70



*Specifications subject to change without notice.