



Micro Commercial Components

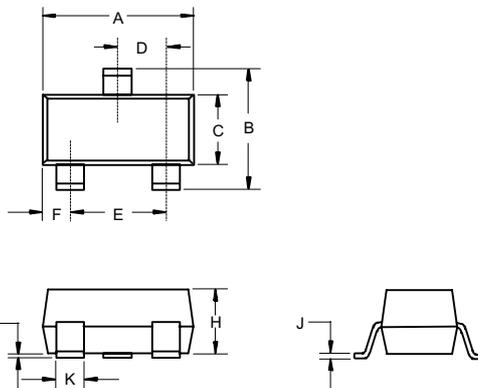


Micro Commercial Components
20736 Marilla Street Chatsworth
Chatsworth, CA 91311
Phone: (818) 701-4933
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SLVU2.8

2.8Volts
ESD Protection
Devices

SOT-23



Features

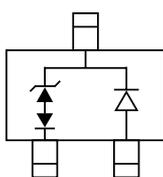
- Halogen free available upon request by adding suffix "-HF"
For sensitive ESD protection
Stand-off Voltage:2.8V
Low leakage
Low clamping voltage
500W peak pulse power (tp=8/20us)
Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
Epoxy meets UL 94 V-0 flammability rating
Moisture Sensitivity Level 1

Maximum Ratings

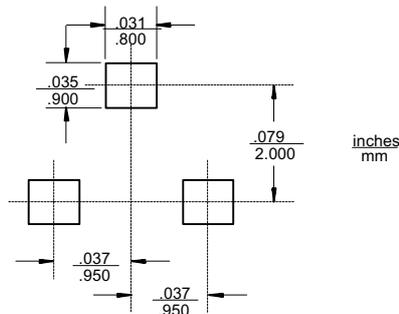
- Operating Junction Temperature: -55°C to +125°C
Storage Temperature: -55°C to +150°C

Table with 5 columns: Parameter, Symbol, Limits, unit. Rows include IEC61000-4-2(ESD) Air Contact, IEC61000-4-5(lightning), and Peak Pulse Power Pd.

Pin Configuration-Top View



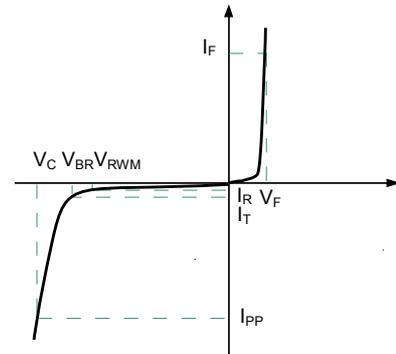
Dimensional table with columns DIM, INCHES (MIN, MAX), MM (MIN, MAX), and NOTE. Lists dimensions A through K.



**ELECTRICAL CHARACTERISTICS** ( $T_A = 25^\circ\text{C}$  unless otherwise noted)

**UNIDIRECTIONAL** (Circuit tied to Pins 1 and 3 or 2 and 3)

Symbol	Parameter
$I_{PP}$	Maximum Reverse Peak Pulse Current
$V_C$	Clamping Voltage @ $I_{PP}$
$V_{RWM}$	Working Peak Reverse Voltage
$I_R$	Maximum Reverse Leakage Current @ $V_{RWM}$
$V_{BR}$	Breakdown Voltage @ $I_T$
$I_T$	Test Current
$I_F$	Forward Current
$V_F$	Forward Voltage @ $I_F$
$P_{pk}$	Peak Power Dissipation
C	Capacitance @ $V_R=0$ and $f=1\text{MHz}$



**ELECTRICAL CHARACTERISTICS** ( $T_A = 25^\circ\text{C}$  unless otherwise noted,  $V_F = 0.9\text{ V Max.}$  @  $I_F = 10\text{mA}$  for all types)

Device	$V_{RWM}$ (V)	$I_R$ ( $\mu\text{A}$ ) @ $V_{RWM}$	$V_{BR}$ (V) @ $I_T$ (Note 2)		$I_T$	$V_C$ @ $I_{PP}=1\text{ A}$	$V_C$ @ $I_{PP}=5\text{A}$	$P_{pk}^+$ (W)	C (pF) Pin 1 to 3
	Max	Max	Min	Typ	mA	V	V	Max	Typ
SLVU2.8	2.8	1.0	3.0	4.0	1.0	5	8	500	13

$V_{BR}$  is measured with a pulse test current  $I_T$  at ambient temperature of  $25^\circ\text{C}$ .



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### TYPICAL CHARACTERISTICS

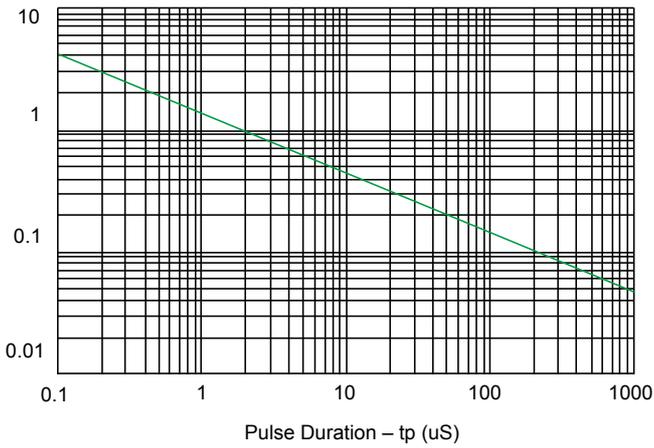


Fig1. Non-Repetitive Peak Pulse Power vs. Pulse time

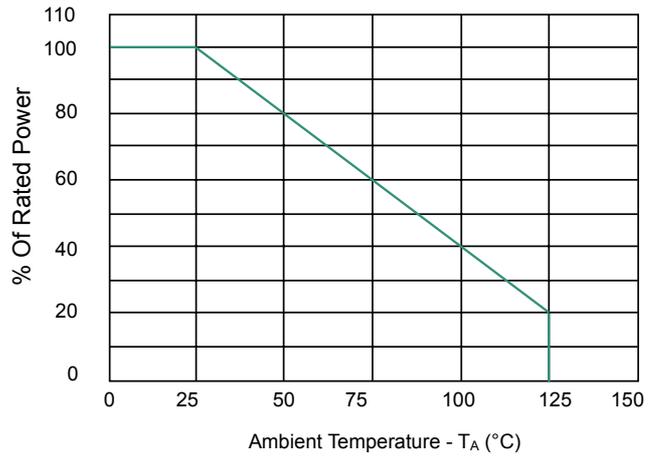


Fig2. Power Derating Curve

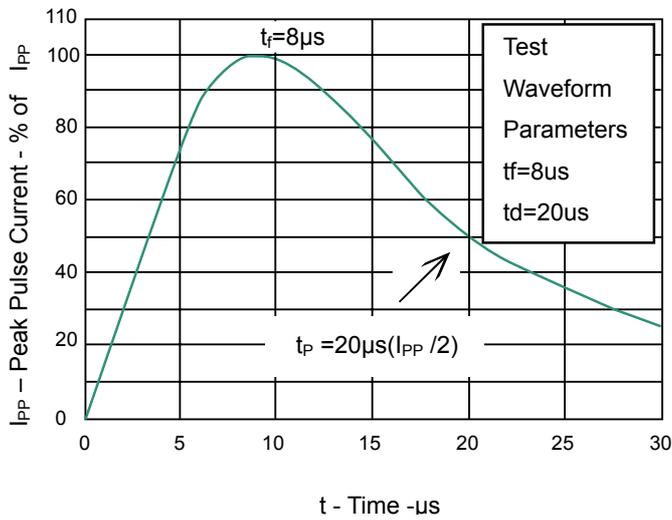


Fig 3. Pulse Waveform



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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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