Elektronische Bauelemente

SD24

VOLTAGE:24V

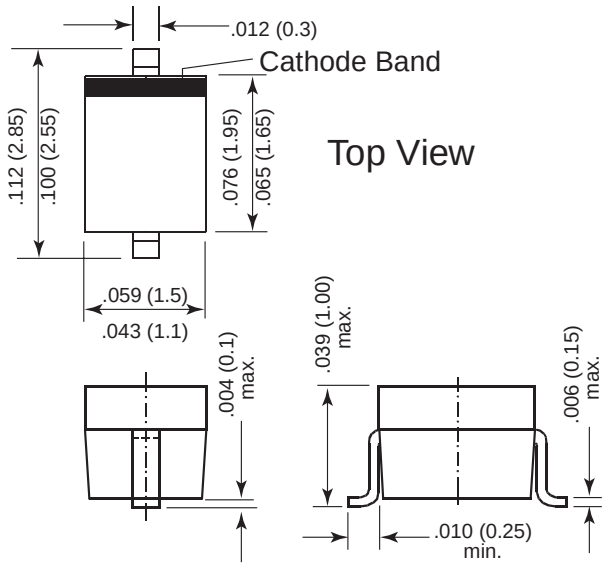
300W Transient Voltage Suppressors Diode

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

SOD-323(SC-76)

FEATURES

* 200 Watts peak pulse power (t = 8 / 20 μs)
* Small package for use in portable electronics
* Suitable replacement for MLV's in ESD protection applications
* Protects one I/O or power line
* Low clamping voltage
* Low leakage current
* Solid-state silicon-avalanche technology



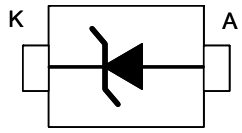
Dimensions in inches and (millimeters)

APPLICATIONS

* Cell Phone Handsets and Accessories
* Microprocessor based equipment
* Personal Digital Assistants (PDA's)
* Notebooks, Desktops, and Servers
* Portable Instrumentation
* Pagers Peripherals

MECHANICAL DATA

* CASE: SOD-323 , Molded Plastic Epocy Meets UL 94 V-0
* TERMINALS: 100% Matte Sn
* POLARITY: See Diagrams
* WEIGHT: 0.0045 gram
* MOUNTING POSITION: Any
* RKING: 24 D



MAXIMUM RATINGS

Rating 25 °C ambient temperature unless otherwise specified.

TYPE NUMBER	SYMBOL	VALUE	UNITS
Peak Pulse Power (t_P = 8 / 20 μs)	P_{PK}	300	W
ESD Voltage (HBM Waveform per IEC 61000-4-2)	V_{ESD}	30	kV
Lead Soldering Temperature	T_L	260 (10 sec.)	°C
Operating Temperature Range	T_J	-55 ~ +150	°C
Storage Temperature Range	T_{STG}	-55 ~ +150	°C

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ELECTRICAL CHARACTERISTICS (T = 25°C)

TYPE NUMBER	SYMBOL	Min.	Typ.	Max.	UNIT	TEST CONDITIONS
Reverse Stand-Off Voltage	V_{RWM}	-	-	24	V	
Reverse Breakdown Voltage	V_{BR}	26.7	29.6	32.6	V	I_t = 1mA
Reverse Leakage Current	I_R	-	-	0.5	μA	V_{RWM} = 24V
Clamping Voltage	V_C	-	-	40	V	I_{PP} = 5A, t_P = 8 / 20 μs
		-	-	44		I_{PP} = 7A, t_P = 8 / 20 μs
Peak Pulse Current	I_{PP}	-	-	7	A	t_P = 8 / 20 μs
Junction Capacitance	C_j	-	-	60	pF	V_R = 0V, f = 1MHz

ELECTRICAL CHARACTERISTIC CURVES

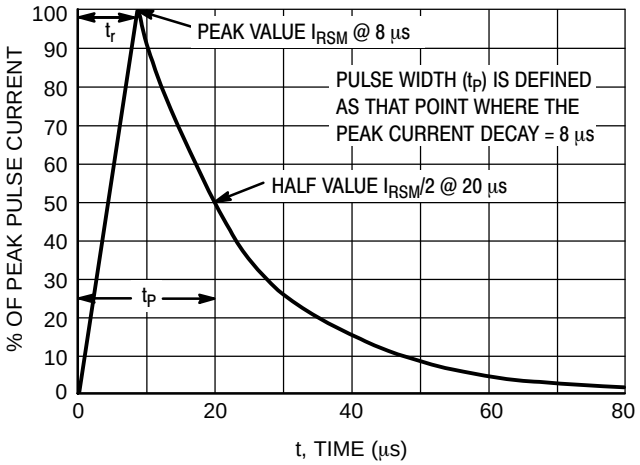


Figure 1. 8 x 20 μs Pulse Waveform