

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

SOD-323(SC-76)

## FEATURES

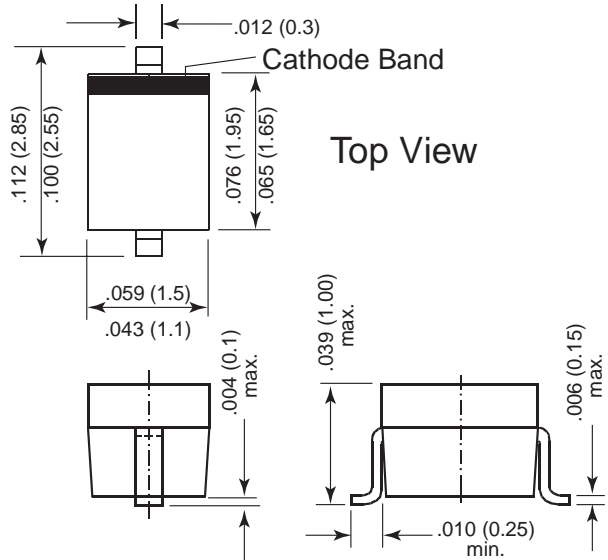
- \* 200 Watts peak pulse power (  $t = 8 / 20 \mu s$  )
- \* Small package for use in portable electronics
- \* Suitable replacement for MLV's in ESD protection applications
- \* Protects one I/O or power line
- \* Low clamping voltage
- \* Low leakage current
- \* Solid-state silicon-avalanche technology

## APPLICATIONS

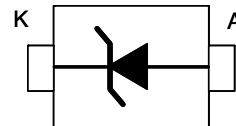
- \* Cell Phone Handsets and Accessories
- \* Microprocessor based equipment
- \* Personal Digital Assistants ( PDA's )
- \* Notebooks, Desktops, and Servers
- \* Portable Instrumentation
- \* Pagers Peripherals

## MECHANICAL DATA

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



Dimensions in inches and (millimeters)



## MAXIMUM RATINGS

Rating 25 °C ambient temperature unless otherwise specified.

TYPE NUMBER	SYMBOL	VALUE	UNITS
Peak Pulse Power ( $t_p = 8 / 20 \mu s$ )	$P_{PK}$	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

## 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	$\mu A$	$V_{RWM} = 24V$
Clamping Voltage	$V_C$	-	-	40	V	$I_{PP} = 5A, t_p = 8 / 20 \mu s$
		-	-	44		$I_{PP} = 7A, t_p = 8 / 20 \mu s$
Peak Pulse Current	$I_{PP}$	-	-	7	A	$t_p = 8 / 20 \mu s$
Junction Capacitance	$C_j$	-	-	60	pF	$V_R = 0V, f = 1MHz$

## ELECTRICAL CHARACTERISTIC CURVES

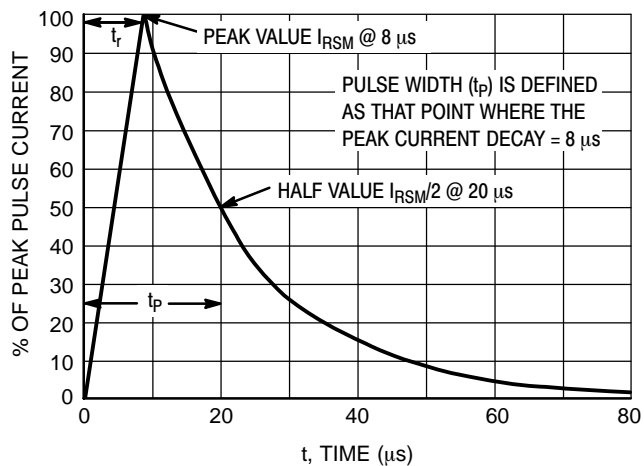


Figure 1. 8 x 20  $\mu s$  Pulse Waveform