

# M·C·C

Micro Commercial Components



Micro Commercial Components  
20736 Marilla Street Chatsworth  
Chatsworth, CA 91311  
Phone: (818) 701-4933  
Fax: (818) 701-4939

## ESD5V0D9B

### Features

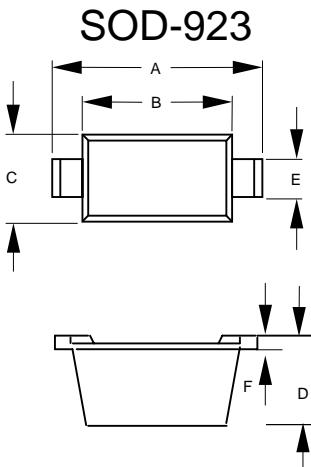
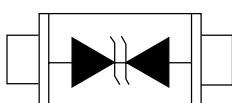
- Halogen free available upon request by adding suffix "-HF"
- For sensitive ESD protection
- Excellent clamping capability
- Low leakage
- ESD rating of class 3(>16KV)per Human Body Mode
- Fast response ,response time less than 1ns.
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

### Maximum Ratings

- Operating Junction &StorageTemperature: -55°C to +150°C

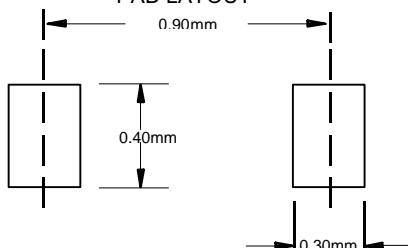
Parameter	Symbol	Limits	unit
IEC61000-4-2(ESD) Air Contact		±15 ±8	KV
ESD Voltage per human body mode		16	KV
Peak Pulse Power(8/20us)	Ppp	80	W

### Pin Configuration-Top View



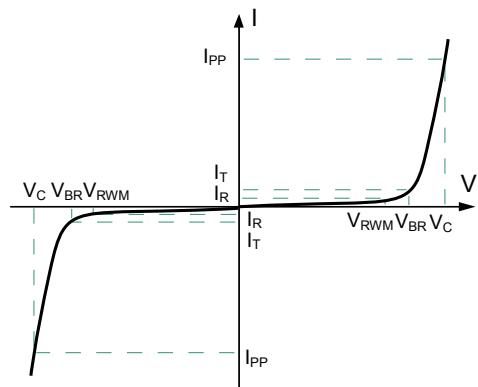
DIM	DIMENSIONS				NOTE
	INCHES	MIN	MAX	MM	
A	.037	.041		0.95	1.05
B	.030	.033		0.75	0.85
C	.022	.026		0.55	0.65
D	.014	.017		0.36	0.43
E	.006	.010		0.15	0.25
F	.003	.007		0.07	0.17

### SUGGESTED SOLDER PAD LAYOUT



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

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
$C$	Capacitance @ $V_R=0$ and $f = 1\text{MHz}$



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

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Working Voltage	$V_{RWM}$				5	V
Breakdown Voltage	$V_{BR}$	$I_t = 1\text{mA}$	5.6	6.7	7.8	V
Reverse Leakage Current	$I_R$	$V_{RWM} = 5\text{V}$			1	$\mu\text{A}$
Junction Capacitance	$C_j$	$V_R = 0\text{V}$ $f = 1\text{MHz}$		15		$\text{pF}$

### Typical Characteristics

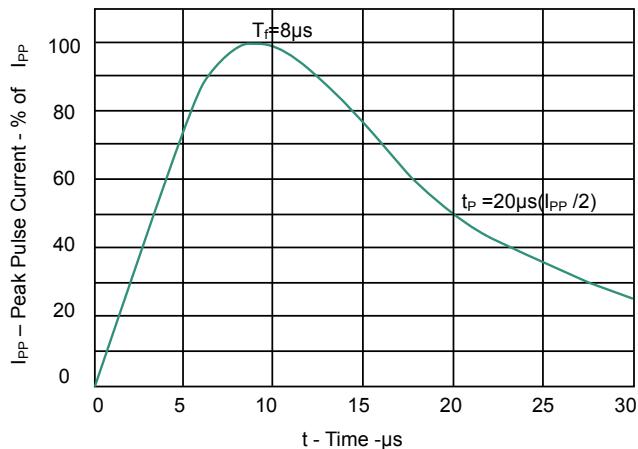


Fig 1.Pulse Waveform

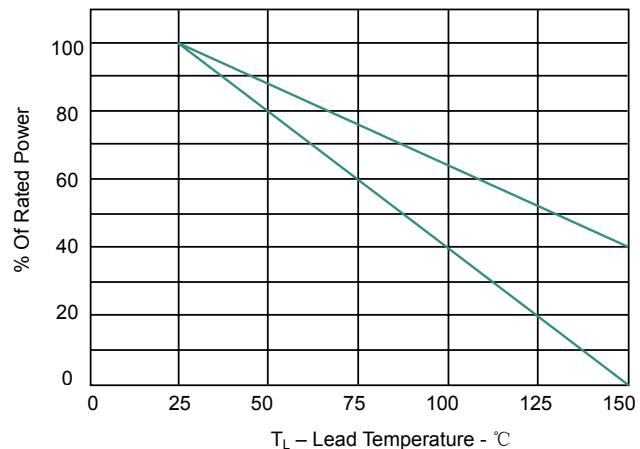


Fig 2.Power Derating Curve



TM

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## Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 8Kpcs/Reel

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

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# AMEYA360

## Components Supply Platform

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#### ➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd  
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#### ➤ Sales :

Direct +86 (21) 6401-6692  
Email amall@ameya360.com  
QQ 800077892  
Skype ameyasales1 ameyasales2

#### ➤ Customer Service :

Email service@ameya360.com

#### ➤ Partnership :

Tel +86 (21) 64016692-8333  
Email mkt@ameya360.com