

M·C·C

Micro Commercial Components



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ESDLC5V0D9B

Features

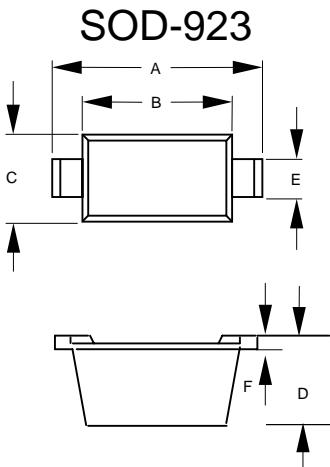
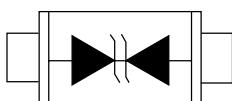
- Halogen free available upon request by adding suffix "-HF"
- For sensitive ESD protection
- Excellent clamping capability
- Low leakage
- ESD rating of class 3(>16KV)per Human Body Mode
- Fast response ,response time less than 1ns.
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. 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

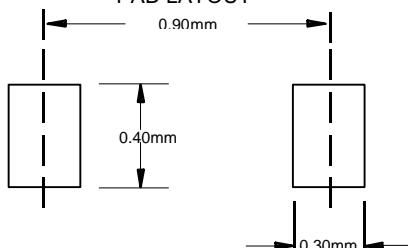
Parameter	Symbol	Limits	unit
IEC61000-4-2(ESD) Air Contact		±15 ±8	KV
ESD Voltage per human body mode		16	KV
Peak Pulse Power(8/20us)	Ppp	80	W

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

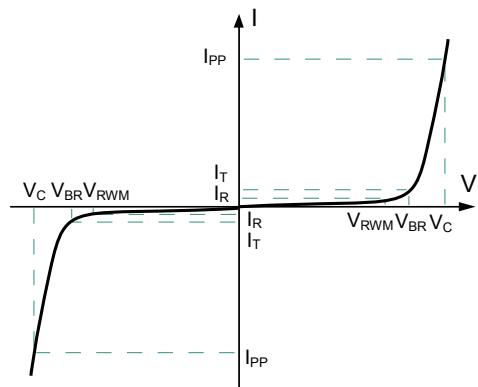
SUGGESTED SOLDER PAD LAYOUT



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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	μA
Junction Capacitance	C_j	$V_R=0\text{V}$ $f = 1\text{MHz}$		2.1		pF

Typical Characteristics

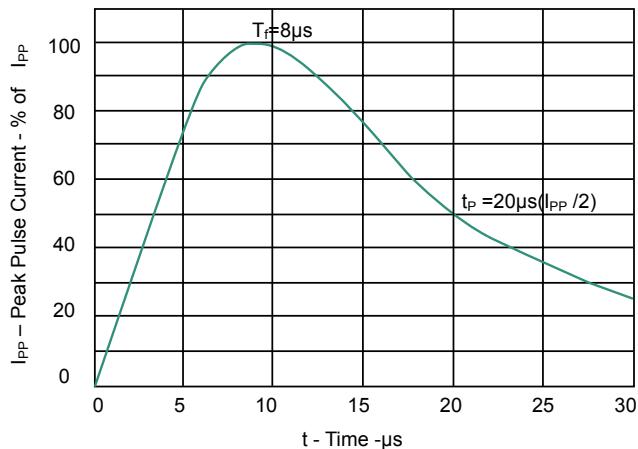


Fig 1.Pulse Waveform

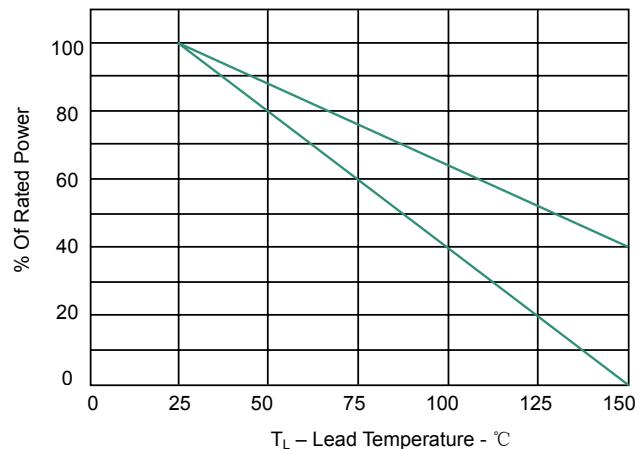


Fig 2.Power Derating Curve



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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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