

Product data sheet

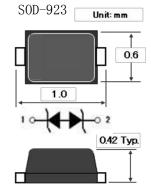
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Semiconductor Compiance

- ♦ Bi-Directional Transient Voltage Suppressor
- \diamond Low capacitance and Low Leakage
- ESD Protection, IEC61000-4-2 Level 4
- ♦ SOD923 SMD
- \diamond RoHS compliant
- ♦ UL-94 V-0 / Green EMC
- \diamond Matte Tin Lead finish (Pb-Free)



Ordering Information

P/N	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Notes
BTR9S23A10-MS	SOD923	Tape & Reel 8000pcs /7" Reel	8 mm	2 mm	Conductive	

Absolute Maximum Ratings (Ta = 25 °C)

Symbol	Parameter	Value	Units
I _{PP *1}	Maximum Reverse Peak Pulse Current	5.0	A
$V_{ESD-Air}$	ESD Voltage IEC61000-4-2 Air	±15	kV
$V_{\texttt{ESD-contact}}$	ESD Voltage IEC61000-4-2 Contact	±8	kV
TJ	Junction Temperature	150	°C
Τ _{stg}	Storage Temperature	-55 to +150	°C
PD	Power Dissipation	150	mW

 $*_1 t_P = 8/20 \mu s$

Electrical Characteristics (Ta = 25 °C)

Symbol	Parameter	Conditions	Min	Тур	Max	Units
V_{RWM}	Reverse Working Peak Voltage	_			5.0	V
V _{BR}	Reverse Breakdown Voltage Pin 1 to 2	I _T = 1mA	5.6		8.2	V
I _R	Reverse Current	$V_{RWM} = \pm 5V$			1.0	μA
CD	Diode Capacitance	$V_R = 0V$, f = 1MHz		13		pF





Electrical Parameter

Symbol	Parameter			
Symbol	i uranieter			
I _{PP}	Maximum Reverse Peak Pulse Current			
Vc	Clamping Voltage @ IPP			
V _{RWM}	Working Peak Reverse Voltage			
I _R	Maximum Reverse Leakage Current @ V _{RWM}			
Ι _Τ	Test Current			
V _{BR}	Breakdown Voltage @ Ι _Τ			

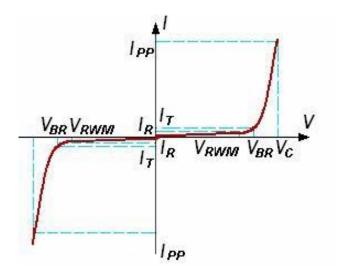
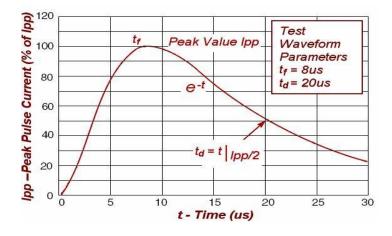
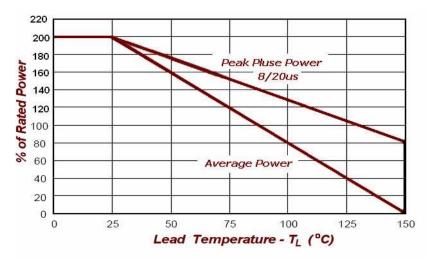


FIG1: Pulse Waveform

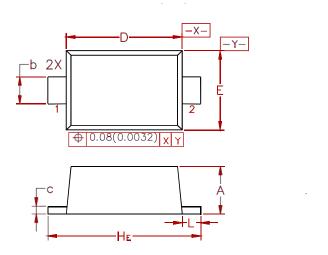






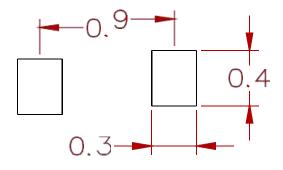


PACKAGE MECHANICAL DATA



		Millimeters			Inches	
Dim	Min	Nom	Max	Min	Nom	Max
Α	0.36	0.40	0.43	0.014	0.016	0.017
b	0.15	0.20	0.25	0.006	0.008	0.010
С	0.07	0.12	0.17	0.003	0.005	0.007
D	0.75	0.80	0.85	0.030	0.031	0.033
E	0.55	0.60	0.65	0.022	0.024	0.026
HE	0.95	1.00	1.05	0.037	0.039	0.041
L	0.05	0.10	0.15	0.002	0.004	0.006

Suggested Pad Layout



Dimensions: Millimeters

REEL SPECIFICATION

P/N	PKG	QTY
BTR9S23A10-MS	SOD-923	8000



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