

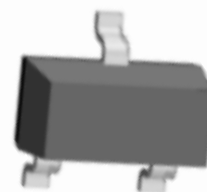
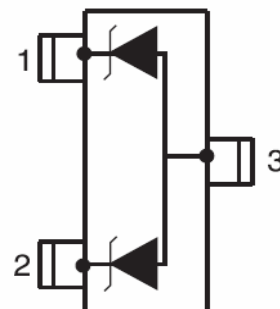
Applications

- Computers
- Printers
- Communication systems

It is particularly recommended for the RS232 I/O port protection where the line interface withstands only with 2kV ESD surges.

Features

- 2 Unidirectional Transil functions
- Low leakage current: $I_R \max < 20 \mu A$ at VBR
- 3 00W peak pulse power(8/20 μs)
- High ESD protection level: up to 25 kV
- S- Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q101 Qualified and PPAP Capable.



SOT-23

Benefits

- High ESD protection level
- up to 25 kV. High integration.
- Suitable for high density boards.

Complies with the following standards

IEC61000-4-2 Level 4

MIL STD 883c - Method 3015-6 Class 3

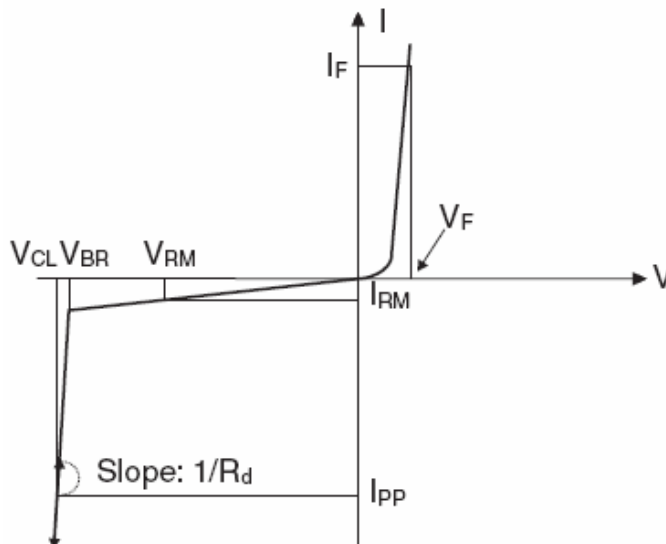
(Human Body Model)

Absolute Ratings ($T_{amb}=25^{\circ}C$)

Symbol	Parameter	Value	Units
P_{PP}	Peak Pulse Power ($t_p = 8/20\mu s$)	200	W
T_L	Maximum lead temperature for soldering during 10s	260	$^{\circ}C$
T_{stg}	Storage Temperature Range	-55 to +15	$^{\circ}C$
T_{op}	Operating Temperature Range	-40 to +125	$^{\circ}C$
T_j	Maximum junction temperature	150	$^{\circ}C$
V_{PP}	Electrostatic discharge		
	MIL STD 883C -Method 3015-6	25	kv
	IEC61000-4-2 air discharge	16	
	IEC61000-4-2 contact discharge	9	

Electrical Parameter

Symbol	Parameter
V_{RM}	Stand-off voltage
V_{BR}	Breakdown voltage
V_{CL}	Clamping voltage
I_{RM}	Leakage current
I_{PP}	Peak pulse current
αT	Voltage temperature coefficient
V_F	Forward voltage drop
C	Capacitance
R_d	Dynamic resistance



Electrical Characteristics

$T_J = 25^\circ\text{C}$ unless otherwise noted

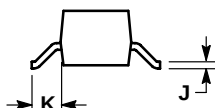
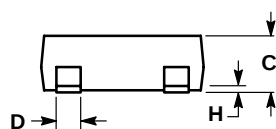
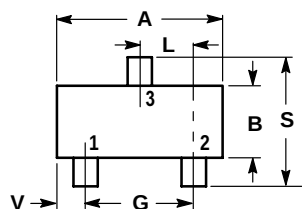
Rated Stand-off Voltage	Minimum Breakdown Voltage	Maximum Clamping Voltage		Maximum Pulse Peak Current	Maximum Leakage Current	Maximum Capacitance
	@ 1 mA	@ $I_P = 1\text{ A}^1$	@ $I_P = 5\text{ A}^1$	$t_p = 8/20\text{ }\mu\text{s}$	@ V_{WM}	@ 0 V, 1 MHz
V_{WM}	V_{BR}	V_C		I_{PPM}	I_D	C
V	V	V		A	μA	pF
3.3	4.5	7.0	9.0	18	125	60
4.0	5.0	8.5	10.5	17	125	60
5.0	6.0	9.8	12.5	17	100	40
8.0	8.5	13.4	15.0	15	10	35
12.0	13.3	19.0	28.0	12	2	15
15.0	16.7	24.0	35.0	10	1	15
24.0	26.7	43.0	60.0	5	1	12
36.0	40	60.0	75.0	2	1	10

¹⁾ 8/20 μs waveform used (see figure 2)

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NOTES:

1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M,1982
2. CONTROLLING DIMENSION: INCH.



DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.1102	0.1197	2.80	3.04
B	0.0472	0.0551	1.20	1.40
C	0.0350	0.0440	0.89	1.11
D	0.0150	0.0200	0.37	0.50
E	0.0701	0.0807	1.78	2.04
F	0.0005	0.0040	0.013	0.100
G	0.0034	0.0070	0.085	0.177
H	0.0140	0.0285	0.35	0.69
I	0.0350	0.0401	0.89	1.02
J	0.0830	0.1039	2.10	2.64
K	0.0177	0.0236	0.45	0.60

