

APPLICATIONS

- ✧ Digital Visual Interface (DVI).
- ✧ Audio/Video Inputs.
- ✧ Wireless Network Systems.
- ✧ Monitors and Flat Panel Displays.
- ✧ Medical Sensors.
- ✧ Notebook Computers.
- ✧ Set Top Box.
- ✧ Projection TV.

IEC COMPATIBILITY

- ✧ IEC61000-4-2 (ESD) $\pm 15\text{kV}$ (air), $\pm 8\text{kV}$ (contact).
- ✧ IEC61000-4-4 (EFT) 40A (5/50ns).
- ✧ IEC61000-4-5 (Lightning) 5A (8/20 μs).

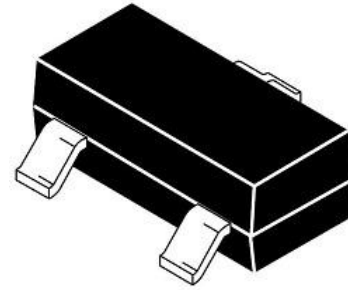
FEATURES

- ✧ 300 Watts Peak Pulse Power per Line ($t_p=8/20\mu\text{s}$).
- ✧ Protects two I/O lines (Common Mode).
- ✧ Protects one I/O line (Differential Mode).
- ✧ Low clamping voltage.
- ✧ Working voltages : 3.3, 5, 8, 12, 15 and 24V.
- ✧ Low leakage current.

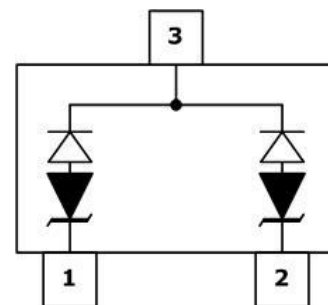
MECHANICAL CHARACTERISTICS

- ✧ JEDEC SOT-23 Package.
- ✧ Molding Compound Flammability Rating : UL 94V-O.
- ✧ Weight 8 Milligrams (Approximate).
- ✧ Quantity Per Reel : 3,000pcs.
- ✧ Reel Size : 7 inch.
- ✧ Lead Finish : Lead Free.

SOT-23



PIN CONFIGURATION



DEVICE CHARACTERISTICS

MAXIMUM RATINGS (@ 25°C Unless Otherwise Specified)			
PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Power (tp=8/20μs waveform)	P _{PP}	300	Watts
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 PER LINE (@ 25°C Unless Otherwise Specified)								
PART NUMBER	DEVICE MARKING	V _{RWM} (V) (max.)	V _B (V) (min.)	I _T (mA)	V _C @1A (max.)	V _C @5A (max.)	I _R (μA) (max.)	C _T (pF) (typ.)
JULC03DT3	N03	3.3	4.0	1	7.5	13.0	40	0.6
JULC05DT3	N05	5.0	6.0	1	9.8	17.0	5	0.6
JULC08DT3	N08	8.0	8.5	1	13.5	19.0	1	0.6
JULC12DT3	N12	12.0	13.3	1	19.0	28.0	1	0.6
JULC15DT3	N15	15.0	16.7	1	24.0	35.0	1	0.6
JULC24DT3	N24	24.0	26.7	1	43.0	60.0	1	0.6

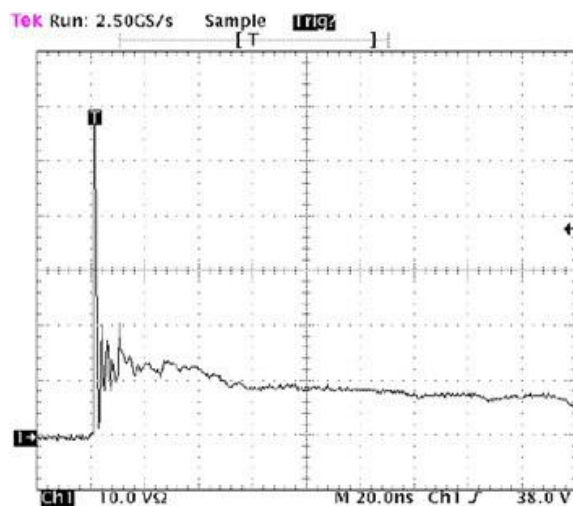
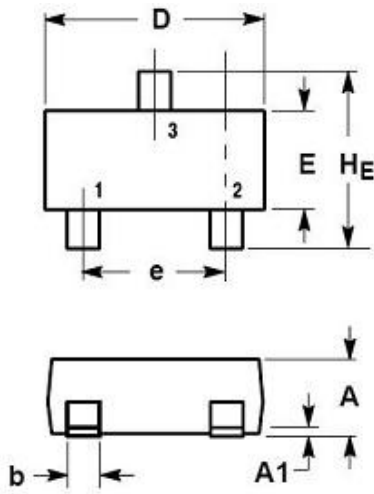


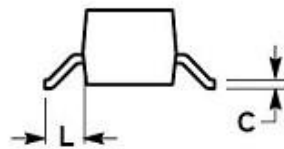
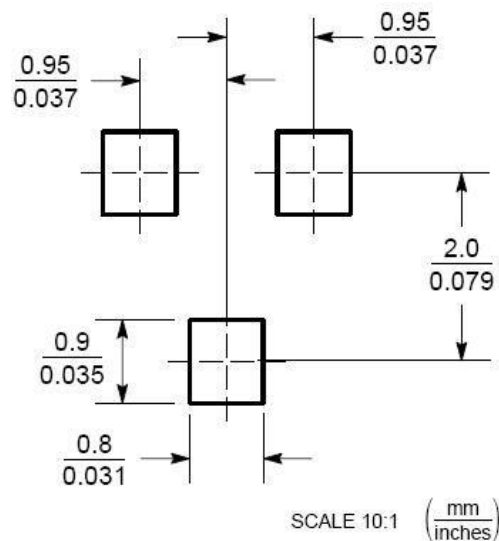
Figure 1. ESD Clamping Voltage Screenshot
Positive 8 kV contact per IEC 61000-4-2



Figure 2. ESD Clamping Voltage Screenshot
Negative 8 kV contact per IEC 61000-4-2

SOT-23 PACKAGE OUTLINE & DIMENSIONS


DIM	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.89	1.00	1.11	0.035	0.040	0.044
A1	0.01	0.06	0.10	0.001	0.002	0.004
b	0.37	0.44	0.50	0.015	0.018	0.020
c	0.09	0.13	0.18	0.003	0.005	0.007
D	2.80	2.90	3.04	0.110	0.114	0.120
E	1.20	1.30	1.40	0.047	0.051	0.055
e	1.78	1.90	2.04	0.070	0.075	0.081
L	0.35	0.54	0.69	0.014	0.021	0.029
HE	2.10	2.40	2.64	0.083	0.094	0.104


*** SOLDERING FOOTPRINT**


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