SEMICONDUCTOR

DATA SHEET

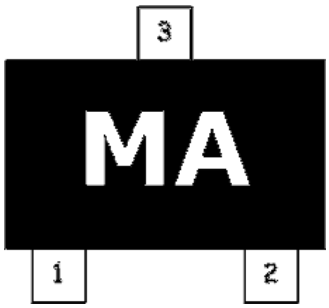
YSDAxx02M3

UNIDIRECTIONAL TVS DIODE ARRAY

APPLICATIONS

- Cell Phone Handsets and Accessories
- Microprocessor based equipment
- Personal Digital Assistants (PDA's)
- Notebooks, Desktops, and Servers
- Portable Instrumentation
- Peripherals
- Pagers

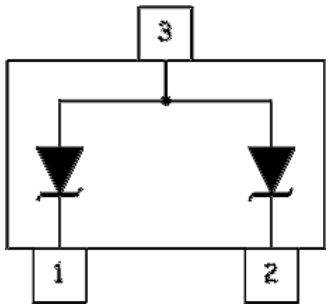
SOT-723



IEC COMPATIBILITY

- IEC61000-4-2 (ESD) ±15kV (air), ±8kV (contact)
- IEC61000-4-4 (EFT) 40A (5/50 η s)

PIN CONFIGURATION



FEATURES

- 60 Watts Peak Pulse Power per Line (tp=8/20μs)
- Protects two unidirectional I/O lines
- Low clamping voltage
- Working voltages : 3.3V and 5.0V
- Low leakage current

MECHANICAL CHARACTERISTICS

- SOT-723 Package
- Molding Compound Flammability Rating : UL 94V-O
- Weight 1.30 Millgrams (Approximate)
- Quantity Per Reel : 5,000pcs
- Reel Size : 7 inch
- Lead Finish : Lead Free

DEVICE CHARACTERISTICS

YSDAxx02M3

MAXIMUM RATINGS (@ 25℃ Unless Otherwise Specified)			
PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Power (tp=8/20μs waveform)	P_{PP}	60	Watts
Lead Soldering Temperature	T_L	260 (10 sec.)	℃
Operating Temperature Range	T_J	-55 ~ 150	℃
Storage Temperature Range	T_{STG}	-55 ~ 150	℃

ELECTRICAL CHARACTERISTICS PER LINE (@ 25℃ Unless Otherwise Specified)									
PART NUMBER	DEVICE MARKING	V_{RWM} (V) (max.)	V_B (V) (min.)	V_B (V) (max.)	I_T (mA)	V_C @1A (max.)	V_C @3A (max.)	I_R (μA) (max.)	C_T (pF) (typ.)
YSDA3302M3	M3	3.3	5.04	6.16	1	8.5	18	5	25
YSDA0502M3	MA	5	6.32	7.08	1	9.8	20	1	22

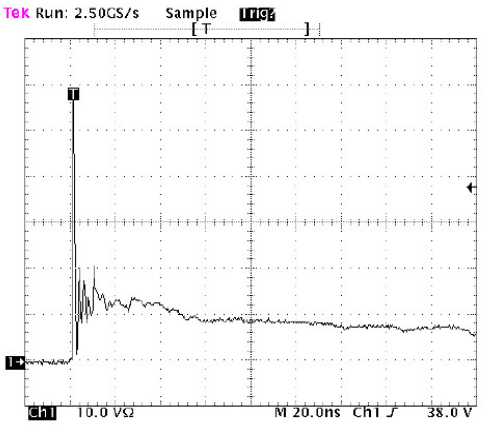


Figure 1. ESD Clamping Voltage Screenshot Positive 8 kV contact per IEC 61000-4-2

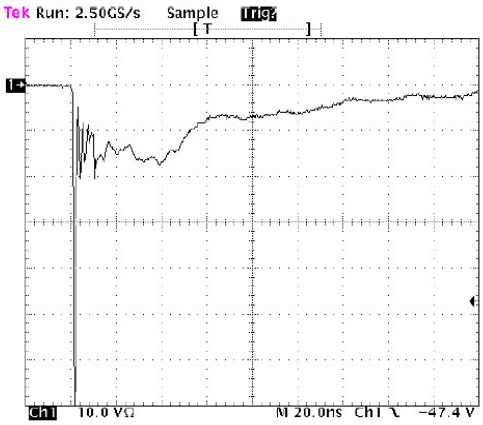
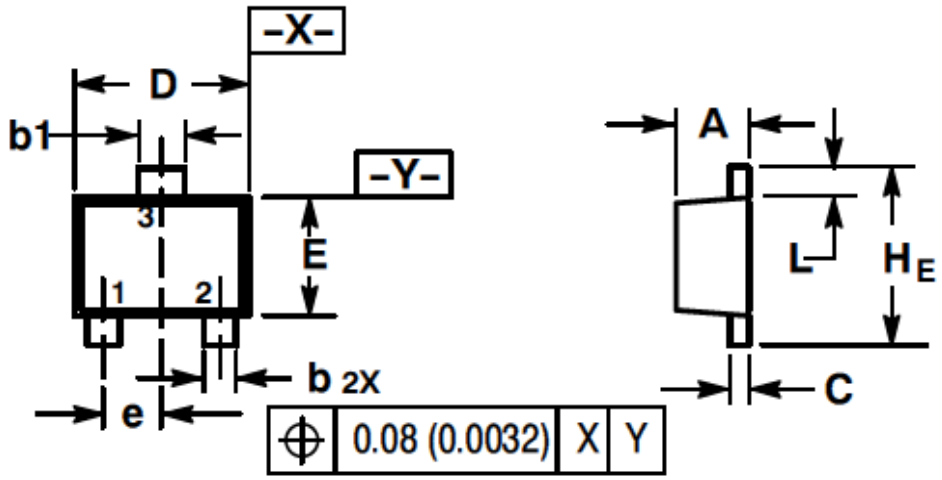


Figure 2. ESD Clamping Voltage Screenshot Negative 8 kV contact per IEC 61000-4-2

PACKAGE OUTLINE & DIMENSIONS

YSDAxx02M3



DIM	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.45	0.50	0.55	0.018	0.020	0.022
b	0.15	0.21	0.27	0.0059	0.0083	0.0106
b1	0.25	0.31	0.37	0.010	0.012	0.015
C	0.07	0.12	0.17	0.0028	0.0047	0.0067
D	1.15	1.20	1.25	0.045	0.047	0.049
E	0.75	0.80	0.85	0.03	0.032	0.034
e	0.40 BSC			0.016 BSC		
H_E	1.15	1.20	1.25	0.045	0.047	0.049
L	0.15	0.20	0.25	0.0059	0.0079	0.0098

* SOLDERING FOOTPRINT

