SEMICONDUCTOR

DATA SHEET

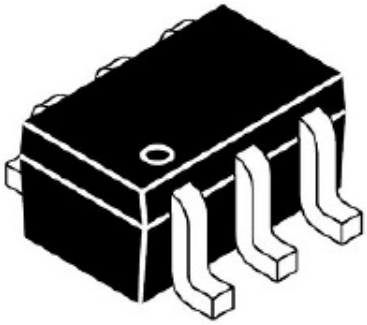
YSDA05CW

Five Lines TVS Diode Array

APPLICATIONS

- Cellular Handsets and Accessories
- Cordless Phones
- Personal Digital Assistants (PDA's)
- Notebooks and Handhelds
- Portable Instrumentation
- Peripherals
- MP3 Players

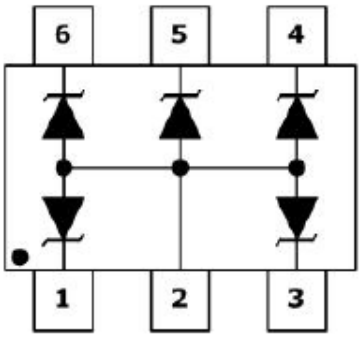
SOT-363



IEC COMPATIBILITY

- IEC61000-4-2 (ESD) ±15kV (air), ±8kV (contact)
- IEC61000-4-4 (EFT) 40A (5/50 η s)
- IEC61000-4-5 (Lightning) 5A (8/20μs)

PIN CONFIGURATION



FEATURES

- 100 Watts Peak Pulse Power per Line (tp=8/20μs)
- Protects five I/O lines
- Low clamping voltage
- Working voltages : 5V
- Low leakage current

MECHANICAL CHARACTERISTICS

- JEDEC SOT-363 Package
- Molding Compound Flammability Rating : UL 94V-O
- Weight 7 Millgrams (Approximate)
- Quantity Per Reel : 3,000pcs
- Reel Size : 7 inch
- Lead Finish : Lead Free

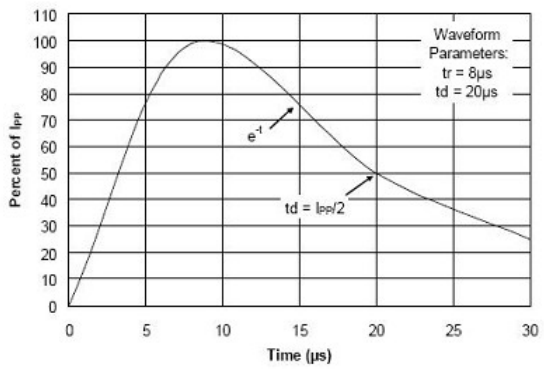
DEVICE CHARACTERISTICS

YSDA05CW

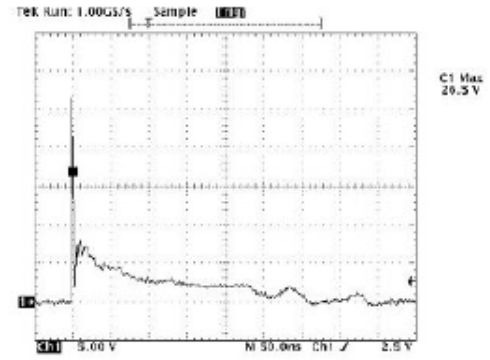
MAXIMUM RATINGS (@ 25℃ Unless Otherwise Specified)			
PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Power (tp=8/20μs waveform)	P_{PP}	100	Watts
Lead Soldering Temperature	T_L	260 (10 sec.)	℃
Operating Temperature Range	T_J	-55 ~ 150	℃
Storage Temperature Range	T_{STG}	-55 ~ 150	℃

ELECTRICAL CHARACTERISTICS PER LINE (@ 25℃ Unless Otherwise Specified)									
PART NUMBER	DEVICE MARKING	V_{RWM} (V) (max.)	V_B (V) (min.)	I_T (mA)	V_C @1A (max.)	V_C (max.)	(@A)	I_R (μA) (max.)	C_T (pF) (max.)
YSDA05CW	WF	5	6	1	9.8	12.5	5	1	50

Pulse Waveform

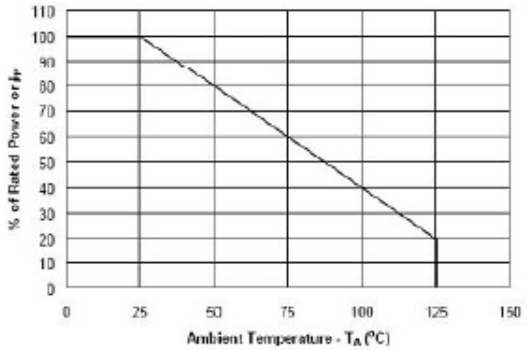


ESD Response (8kV Contact per IEC 61000-4-2)



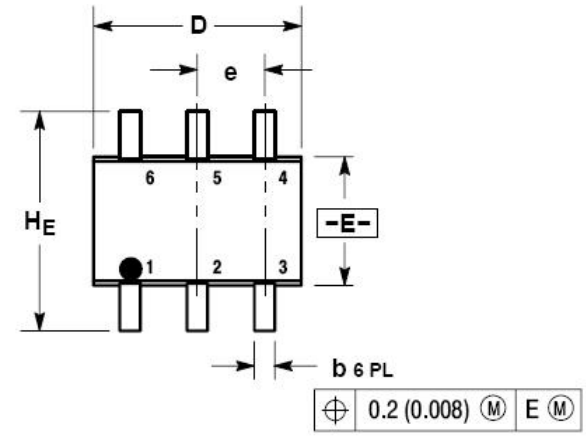
Note: Data is taken with a 10x attenuator

Power Derating Curve

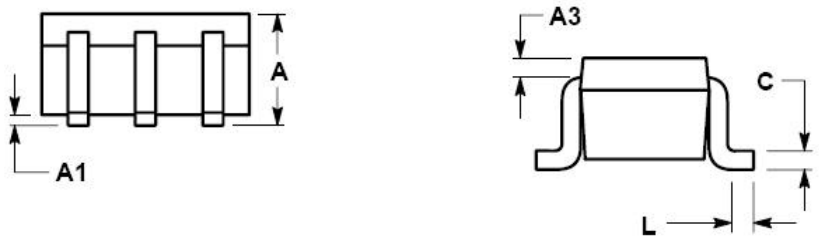


PACKAGE OUTLINE & DIMENSIONS

YSDA05CW



DIM	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.80	0.95	1.10	0.031	0.037	0.043
A1	0.00	0.05	0.10	0.000	0.002	0.004
A3	0.20 REF			0.008 REF		
b	0.10	0.21	0.30	0.004	0.008	0.012
C	0.10	0.14	0.25	0.004	0.005	0.010
D	1.80	2.00	2.20	0.070	0.078	0.086
E	1.15	1.25	1.35	0.045	0.049	0.053
e	0.65 BSC			0.026 BSC		
L	0.10	0.20	0.30	0.004	0.008	0.012
H_E	2.00	2.10	2.20	0.078	0.082	0.086



* SOLDERING FOOTPRINT

