



SEMICONDUCTOR

DATA SHEET

YSSRV05-4

Low Capacitance TVS Diode Array



APPLICATIONS

- ◆ USB Power and Data Line Protection
- ◆ High Definition Multi-Media Interface (HDMI)
- ◆ Monitors and Flat Panel Displays
- ◆ Digital Visual Interface (DVI)
- ◆ Notebook Computers
- ◆ Set Top Box
- ◆ Projection TV

IEC COMPATIBILITY

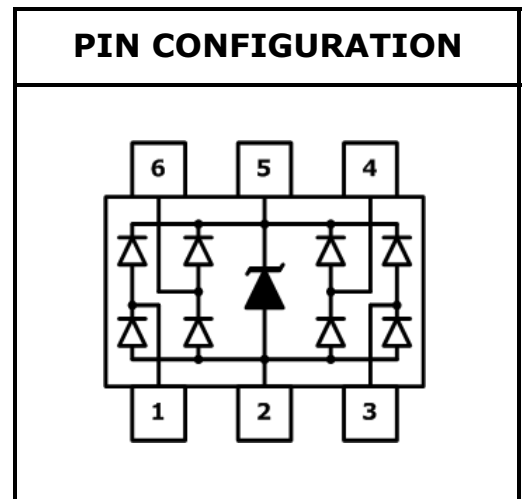
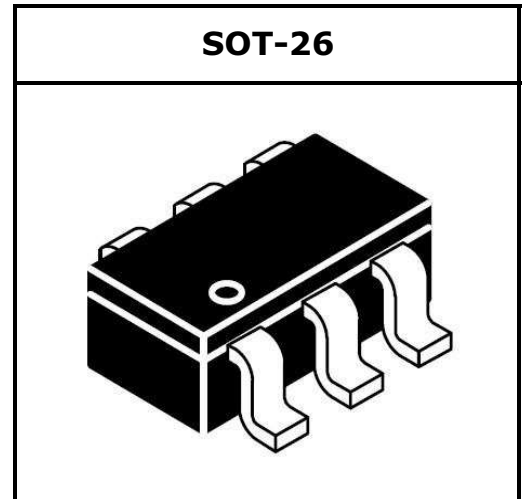
- ◆ IEC61000-4-2 (ESD) ±15kV (air), ±8kV (contact)
- ◆ IEC61000-4-4 (EFT) 40A (5/50 η s)
- ◆ IEC61000-4-5 (Lightning) 2A (8/20 μ s)

FEATURES

- ◆ 300 Watts Peak Pulse Power per Line ($t_p=8/20\mu$ s)
- ◆ Protects four I/O lines and one Vcc line
- ◆ Low clamping voltage
- ◆ Working voltages : 5V
- ◆ Low leakage current

MECHANICAL CHARACTERISTICS

- ◆ SOT-26 Package
- ◆ Molding Compound Flammability Rating : UL 94V-0
- ◆ Weight 16 Milligrams (Approximate)
- ◆ Quantity Per Reel : 3,000pcs
- ◆ Reel Size : 7 inch
- ◆ Lead Finish : Lead Free



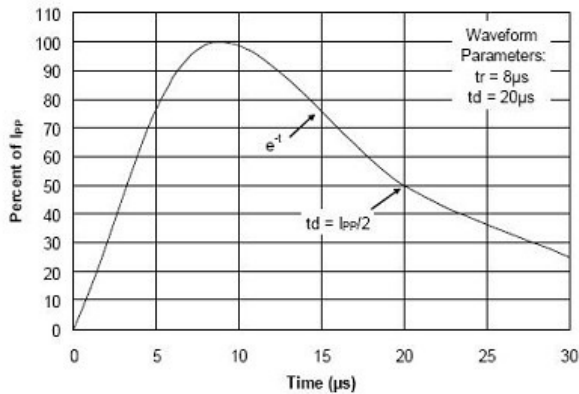
DEVICE CHARACTERISTICS

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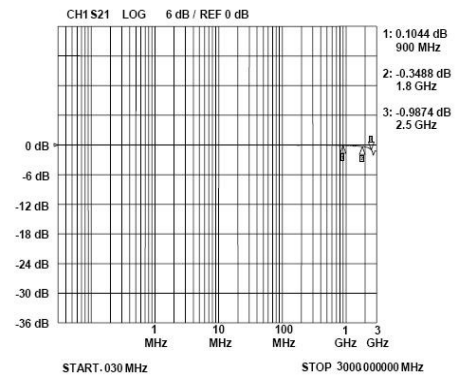
MAXIMUM RATINGS (@ 25°C Unless Otherwise Specified)			
PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Power (tp=8/20µs waveform)	P _{PP}	300	Watts
Lead Soldering Temperature	T _L	260 (10 sec.)	°C
Operating Temperature Range	T _J	-55 ~ 150	°C
Storage Temperature Range	T _{STG}	-55 ~ 150	°C

ELECTRICAL CHARACTERISTICS PER LINE (@ 25°C Unless Otherwise Specified)									
PART NUMBER	DEVICE MARKING	V _{RWM}	V _B	I _T	V _C	V _C		I _R	C _T
		(V) (max.)	(V) (min.)	(mA)	@1A (max.)	(max.)	(@A)	(µA) (max.)	(pF) (typ.)
YSSRV05-4	YV05	5.0	6.0	1	15	23	2	1	1.2

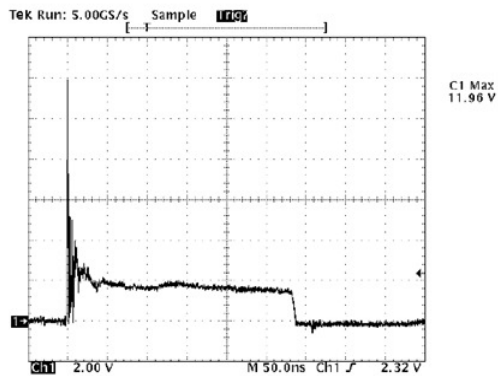
Pulse Waveform



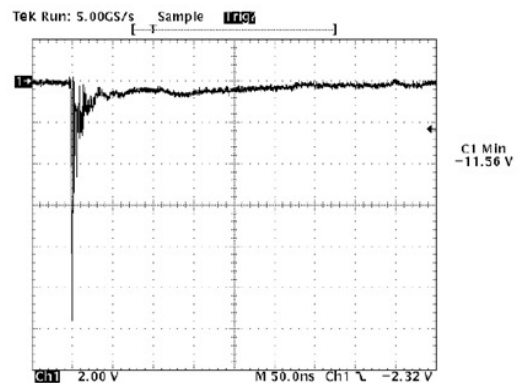
Insertion Loss S21



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



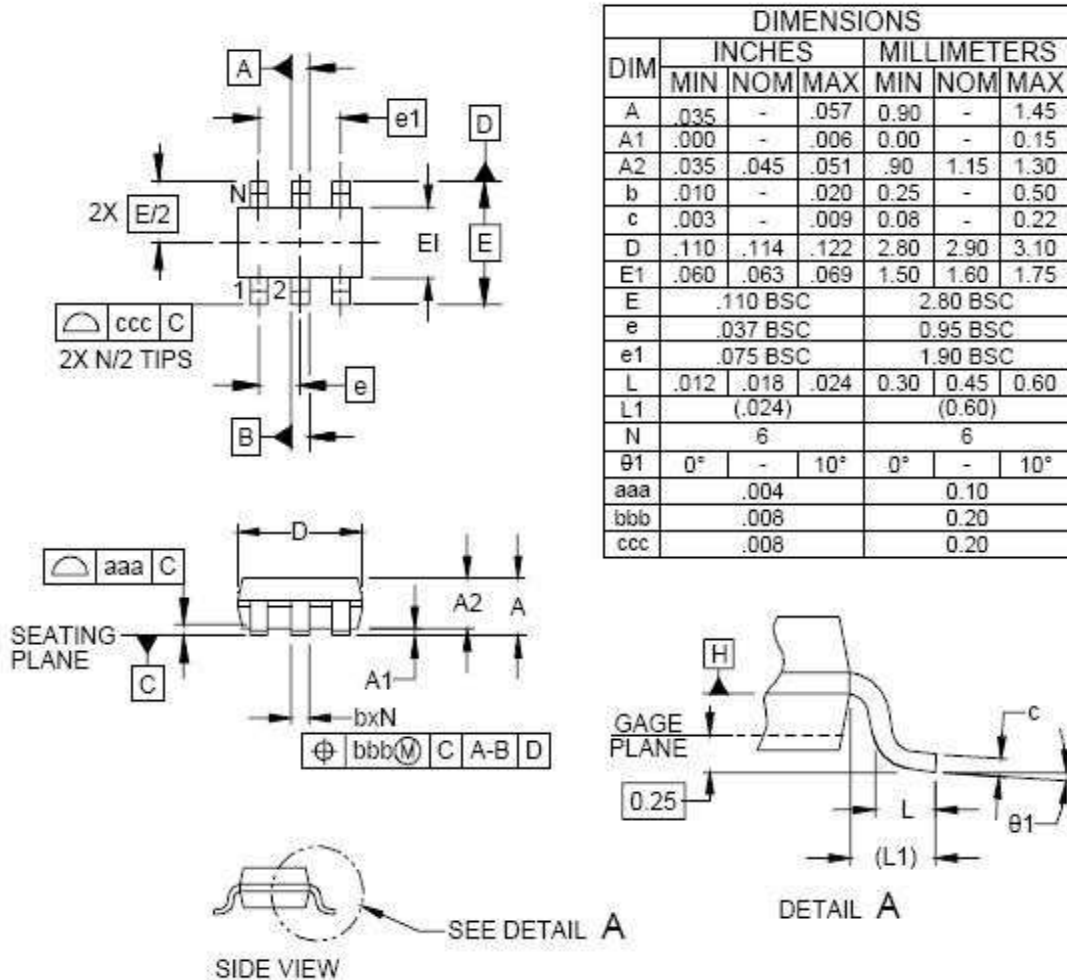
**ESD Clamping
(-8kV Contact per IEC 61000-4-2)**



PACKAGE OUTLINE & DIMENSIONS

YSSRV05-4

SOT-26



* SOLDERING FOOTPRINT

