



LOW CAPACITANCE TVS DIODE ARRAY

DESCRIPTION

The sdisemi modle SRV05.4U2 device designed to protect high speed data interfaces. The SR series has been specifically designed to protect sensitive components which are connected to data and transmission lines from overvoltage caused by electrostatic discharge (**ESD**), electrical fast transients (**EFT**), and **lightning**.

IEC COMPATIBILITY

- ◆ IEC61000-4-2 (ESD) $\pm 15\text{kV}$ (air), $\pm 8\text{kV}$ (contact)
- ◆ IEC61000-4-4 (EFT) 40A (5/50 η s)
- ◆ IEC61000-4-5 (Lightning) 3A (8/20 μ s)

FEATURES

- ◆ 350 Watts Peak Pulse Power per Line ($t_p=8/20\mu\text{s}$)
- ◆ Protects four I/O lines
- ◆ Low clamping voltage
- ◆ Working voltages : 5V
- ◆ Low leakage current

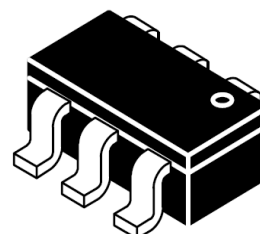
MECHANICAL CHARACTERISTICS

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

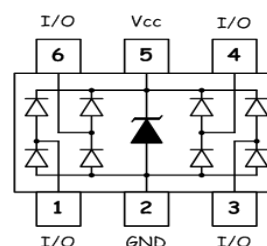
APPLICATIONS

- ◆ USB 2.0 Power and Data Line Protection
- ◆ Video Graphics Cards
- ◆ Monitors and Flat Panel Displays
- ◆ Digit Video Interface (DVI)
- ◆ 10/100/1000 Ethernet
- ◆ Notebook Computers
- ◆ SIM Ports
- ◆ ATM Interfaces

SOT-26



PIN CONFIGURATION

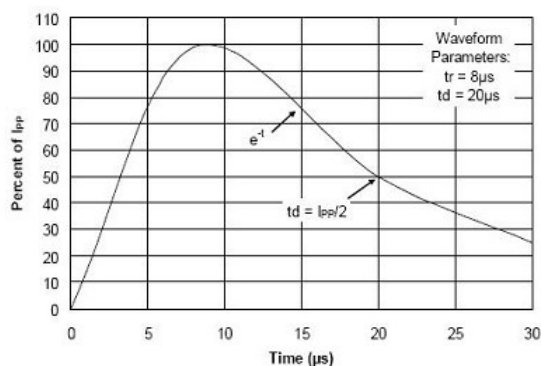
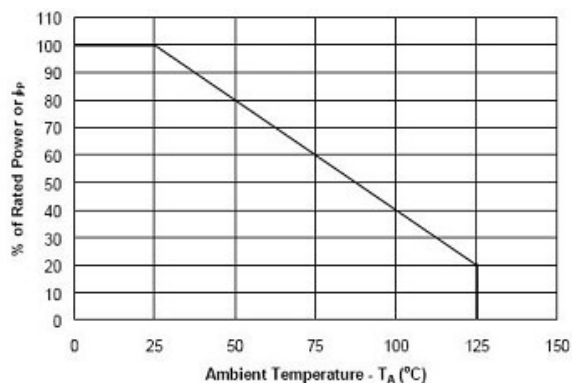
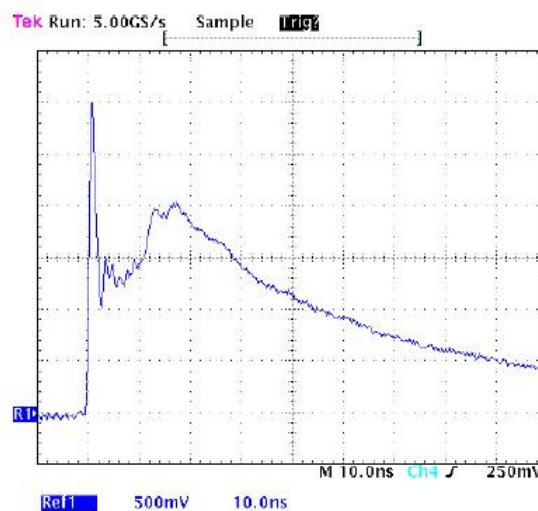


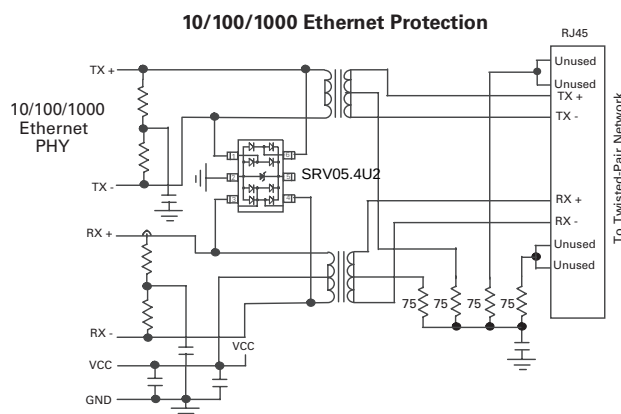
**DEVICE CHARACTERISTICS****MAXIMUM RATINGS (@ 25°C Unless Otherwise Specified)**

PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Power (tp=8/20μs waveform)	P _{PP}	350	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

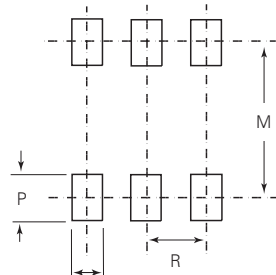
ELECTRICAL CHARACTERISTICS PER LINE (@ 25°C Unless Otherwise Specified)

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.)
SRV05.4U2	V05	5.0	6.0	1	12.5	23.0	3	1	1.2

Pulse Waveform**Power Derating Curve****ESD Pulse Waveform (Per IEC 61000-4-2)**



SOT-26 PACKAGE OUTLINE & DIMENSIONS



Package	SOT23-6				
Pins	6				
JEDEC					
	Millimeters		Inches		Notes
	Min	Max	Min	Max	
A	0.900	1.450	0.035	0.057	-
A1	0.000	0.150	0.000	0.006	-
A2	0.900	1.300	0.035	0.051	-
b	0.350	0.500	0.0138	0.0196	-
C	0.080	0.220	0.0031	0.009	-
D	2.800	3.000	0.11	0.118	3
E	2.600	3.000	0.102	0.118	-
E1	1.500	1.750	0.06	0.069	3
e	0.95 Ref		0.0374 ref		-
e1	1.9 Ref		0.0748 Ref		-
L	0.100	0.600	0.004	0.023	4,5
N	6		6		6
a	0°	10°	0°	10°	-
M		2.590		0.102	-
O		0.690		.027 TYP	-
P		0.990		.039 TYP	-
R		0.950		0.038	-

Notes:

1. Dimensioning and tolerances per ANSI 14.5M-1982.
2. Package conforms to EIAJ SC-74 (1992).
3. Dimensions D and E1 are exclusive of mold flash, protrusions, or gate burrs.
4. Footlength L measured at reference to seating plane.
5. "L" is the length of flat foot surface for soldering to substrate.
6. "N" is the number of terminal positions.
7. Controlling dimension: MILLIMETER. Converted inch dimensions are not necessarily exact.



SRV05.4U2

Company information

COMPANY PROFILE

In business more than 8 years, SDISEMI is a privately-held company located in TAIWAN, that offers a product line of transient voltage suppressors (TVS); steering diode TVS arrays and other surge suppressor component products. These TVS devices protect electronic systems from the effects of lightning, electrostatic discharge (ESD), nuclear electromagnetic pulses (NEMP), inductive switching and EMI / RFI. SDISEMI also offers high performance interface and mosfet, varistor chip bead

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