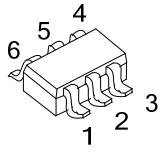
LOW CAPACITANCE TVS DIODE ARRAY



SOT-26
(SC-59-6)

■ DESCRIPTION

The UTC **SRV05-4** is a low capacitance TVS diode array, it uses UTC's advanced technology to provide customers with low leakage current and low clamping voltage, etc.

The UTC **SRV05-4** is suitable for high-speed data lines such as firewire , DVI and Ethernet.

■ FEATURES

* Low clamping voltage
* Low leakage current
* 4 I/O lines protection

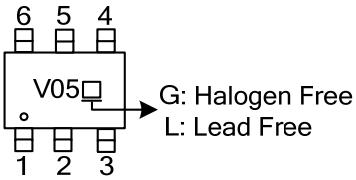
■ ORDERING INFORMATION

Ordering Number		Package	Packing
Lead Free	Halogen Free		
SRV05-4L-AG6-R	SRV05-4G-AG6-R	SOT-26	Tape Reel

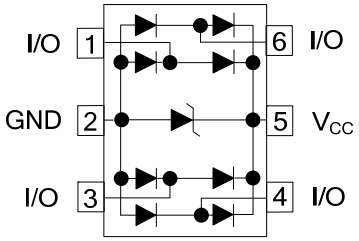
SRV05-4L-AG6-R
(1)Packing Type
(2)Package Type
(3)Halogen Free

(1) R: Tape Reel
(2) AG6 : SOT-26
(3) G: Halogen Free, L: Lead Free

■ MARKING



■ PIN CONFIGURATION



■ PIN DESCRIPTION

PIN NO.	PIN NAME	DESCRIPTION
1	I/O	Terminal of ESD 1
2	GND	Ground
3	I/O	Terminal of ESD 2
4	I/O	Terminal of ESD 3
5	V_{CC}	Supply Voltage (low clamping voltage to ground)
6	I/O	Terminal of ESD 4

■ ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	RATINGS	UNIT
ESD Voltage (HBM Contact)	V_{ESD}	>8	kV
Peak Pulse Power (8/20μs Waveform)	P_{PP}	350	W
Peak Pulse Current (8/20μs Waveform)	I_{PPM}	12	A
Storage Temperature	T_{STG}	-55~+150	°C
Operating Junction Temperature	T_J	-55~+150	°C

Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ ELECTRICAL CHARACTERISTICS

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Reverse Stand-Off Voltage	V_{WRM}				5	V
Reverse Breakdown Voltage	V_{BR}	I_{BR}=1mA, PIN 5 to 2	6			V
Reverse Leakage Current	I_R	V_R=5V, PIN 5 to 2		1.2	5	μA
Clamping Voltage (8/20μs)	V_C	I_{PP}=1A, ANY I/O pin to pin 2			12	V
		I_{PP}=5A, ANY I/O pin to pin 2			17	V
Off State Junction Capacitance	C_J	0Vdc, f=1.0MHZ, between I/O lines and GND		1.1	1.2	pF
		0Vdc, f=1.0MHZ, between I/O lines		0.55	0.60	pF