



SRV05-4

Preliminary

DIODE

LOW CAPACITANCE TVS DIODE ARRAY

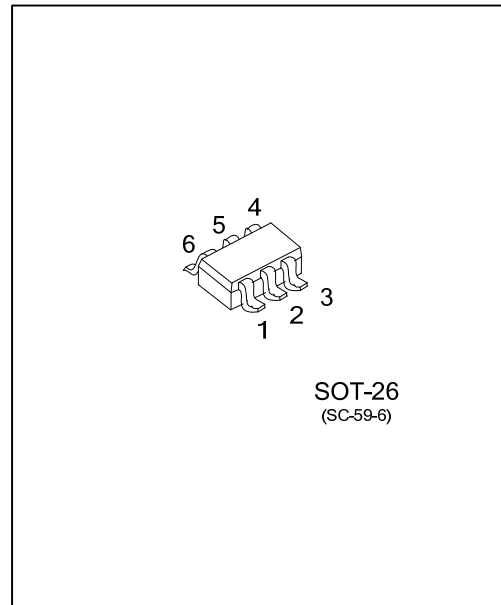
DESCRIPTION

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

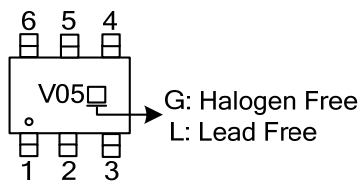


ORDERING INFORMATION

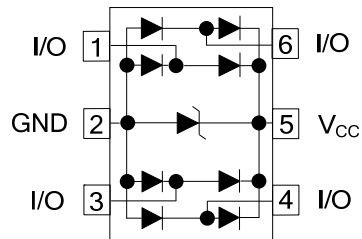
Ordering Number		Package	Packing
Lead Free	Halogen Free		
SRV05-4L-AG6-R	SRV05-4G-AG6-R	SOT-26	Tape Reel

<p>SRV05-4L-AG6-R</p> <p>(1)Packing Type (2)Package Type (3)Halogen Free</p>	<p>(1) R: Tape Reel (2) AG6 : SOT-26 (3) G: Halogen Free, L: Lead Free</p>
--	--

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 (8/20 μ s Waveform)	P_{PP}	350	W
Peak Pulse Current (8/20 μ s Waveform)	I_{PPM}	12	A
Storage Temperature	T_{STG}	-55~+150	$^{\circ}$ C
Operating Junction Temperature	T_J	-55~+150	$^{\circ}$ 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	μ A
Clamping Voltage (8/20 μ s)	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

UTC assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all UTC products described or contained herein. UTC products are not designed for use in life support appliances, devices or systems where malfunction of these products can be reasonably expected to result in personal injury. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice.