

UNISONIC TECHNOLOGIES CO., LTD

SRV05-4 **DIODE Preliminary**

LOW CAPACITANCE TVS **DIODE ARRAY**

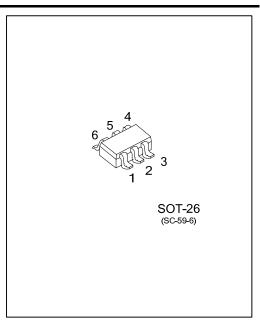
DESCRIPTION

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.

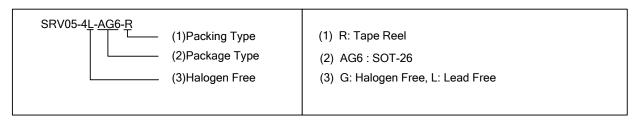
FEATURES

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

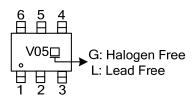


ORDERING INFORMATION

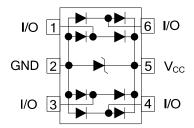
Ordering Number		Dookogo	Dealine	
Lead Free	Halogen Free	Package	Packing	
SRV05-4L-AG6-R	SRV05-4G-AG6-R	SOT-26	Tape Reel	



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	Α
Storage Temperature	T _{STG}	-55~+150	°C
Operating Junction Temperature	TJ	-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	٧
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	μΑ
Clamping Voltage (8/20µs)	\/ _{\0}	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	CJ	0Vdc, f=1.0MHZ,	1.1	1.2	pF	
		between I/O lines and GND				
		0Vdc, f=1.0MHZ, between I/O lines		0.55	0.60	pF

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