

Specification for release

Customer :
Ordercode: **82400274**
Description: **TVS Diode Array WE-TVS**
Package: **SC70-6L**



DATUM / DATE : 2010-01-27

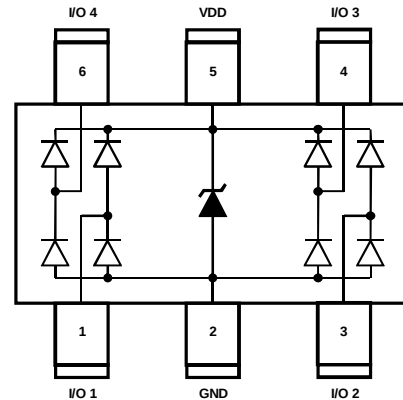
A Features:

- ESD Protection for 4 high-speed I/O channels and VDD
- Provide ESD protection for each channel to IEC 61000-4-2 (ESD) $\pm 15\text{kV}$ (air), $\pm 8\text{kV}$ (contact)
IEC 61000-4-4 (EFT) (5/50ns) 20A (I/O), 40A (VDD)
IEC 61000-4-5 (Lightning) 6A (8/20 μs)
- Below 5V operating voltage: 2.5 - 3.3 - 4.2 - 5.0V
- Ultra Low capacitance: 1.2pF typical

Mechanical Characteristics:

- SC70-6L Package
- Molding compound flamability rating: UL94V-0
- Packaging: Tape & Reel

B Schematic and Pin Configuration:



C Absolute Maximum Ratings:

	Symbol	Rating	Unit
Peak Pulse Current ($t_p = 8/20\mu\text{s}$)	I_{PP}	6	A
Operating Supply Voltage, VDD to GND	V_{DC}	6	V
ESD per IEC 61000-4-2 (Air / Contact), I/O to GND	$V_{ESD,IO}$	16 / 12	kV
ESD per IEC 61000-4-2 (Air / Contact), VDD to GND	$V_{ESD,VDD}$	16 / 12	kV
DC Voltage at any I/O Pin	V_{IO}	(GND -0,5) to (VDD +0,5)	V
Operating Temperature	T_{Op}	-55 to +85	°C
Storage Temperature	T_{Sto}	-20 to +60	°C

D Electrical Characterisitcs:

Properties	Test Conditions	Value min	Value typ	Value max	Unit
V_{RWM}	Pin 5 to Pin 2			5	V
V_{BV}	$I_{BV}=1\text{mA}$, Pin 5 to Pin 2	6.0			V
I_R	$V_{Pin5}=5\text{V}$, Pin 5 to Pin 2			5	μA
V_F	$I_F = 15\text{mA}$, Pin 2 to Pin 5		0.8	1.0	V
V_C	$I_{PP}=5\text{A}$, $t_p=8/20\mu\text{s}$, I/O to GND		8	9	V
$V_{CI,IO}$	$I_{TLP} = 17\text{A}$, I/O to GND		12.5		V
$V_{CI,VDD}$	$I_{TLP} = 17\text{A}$, VDD to GND		9.0		V
C_{IO}	$V_{Pin5}=5\text{V}$, $V_{Pin2}=0\text{V}$, $V_{IO}=2.5\text{V}$, $f=1\text{MHz}$, I/O to GND		1.2	1.6	pF
C_X	$V_{Pin5}=5\text{V}$, $V_{Pin2}=0\text{V}$, $V_{IO}=2.5\text{V}$, $f=1\text{MHz}$, between I/O pins		0.1	0.2	pF

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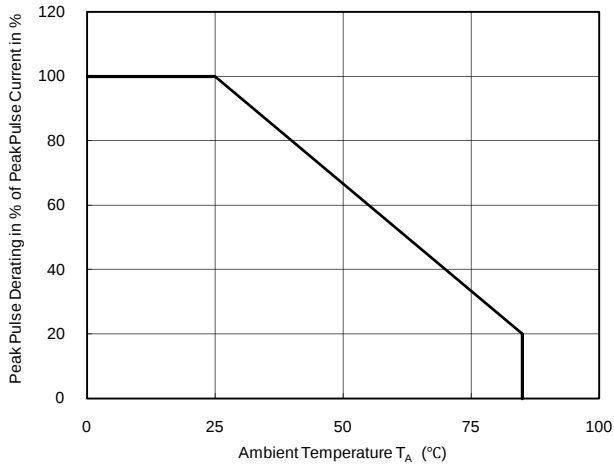
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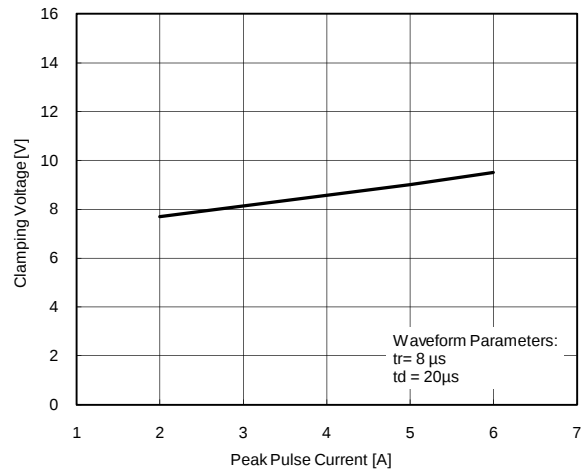


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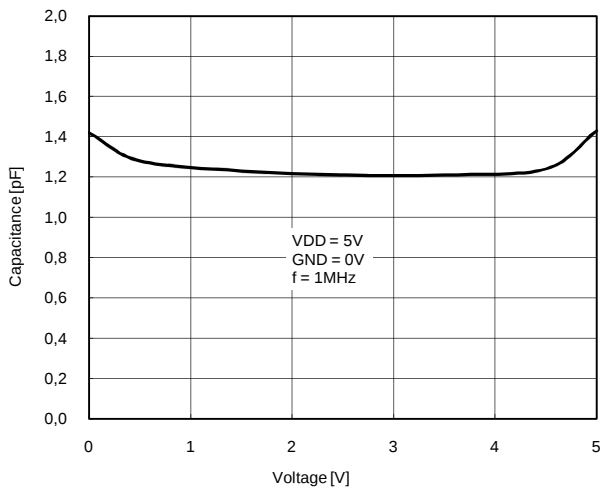
E Typical Characteristics:



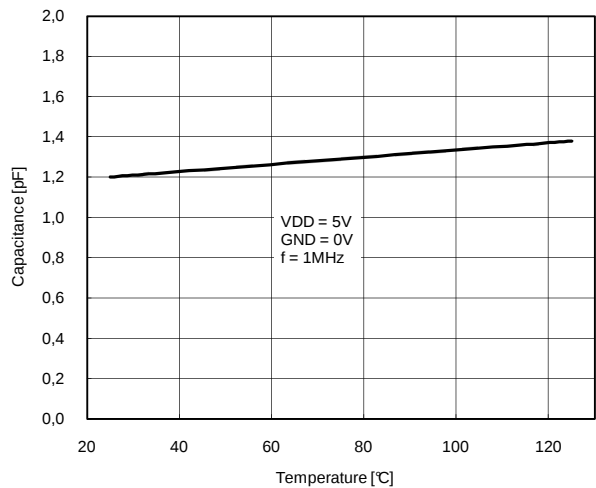
Power Derating Curve



I/O Clamping Voltage vs. Peak Pulse Current



Variation of C_{IO} vs. V_{IO}



Variation of C_{IO} vs. Temp.

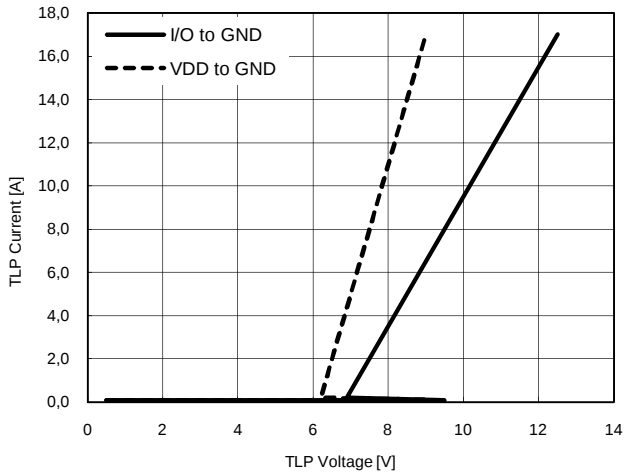
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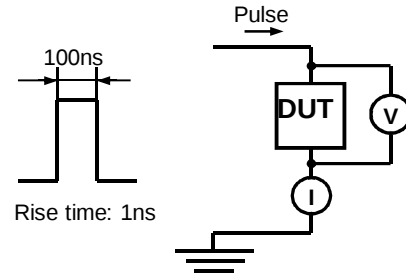


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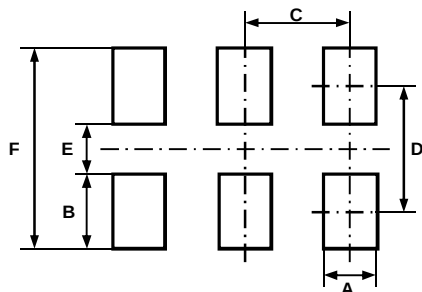


Transmission Line Pulsing (TLP) Measurement



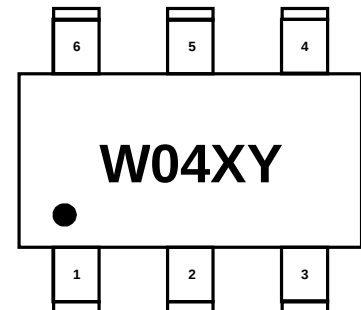
Transmission Line Pulsing System

F Recommended Land Layout:



A	0.40	mm
B	0.85	mm
C	0.65	mm
D	1.85	mm
E	1.00	mm
F	2.70	mm

G Body Marking:



W04: Device Code

X: Date Code

Y: Control Code

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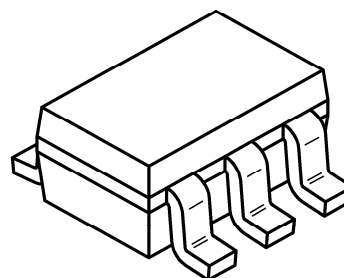
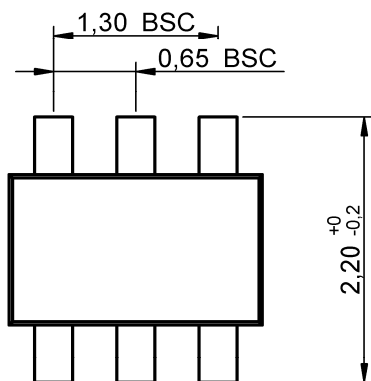
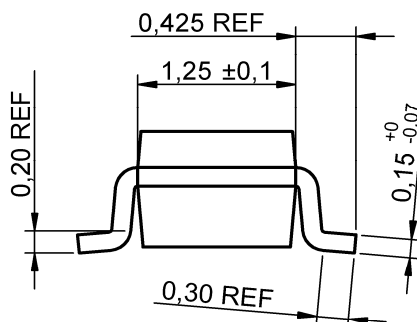
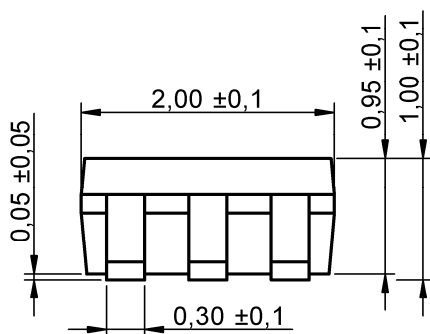
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H Dimensions:



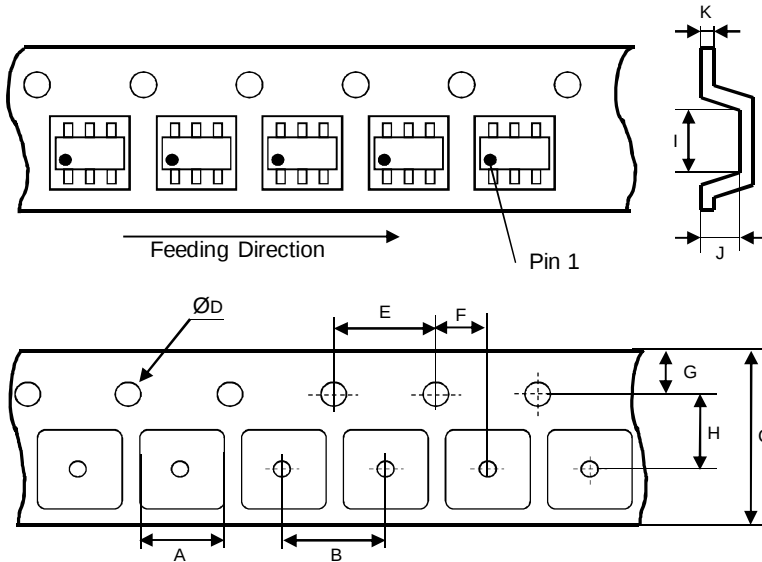
Scale - 10:1

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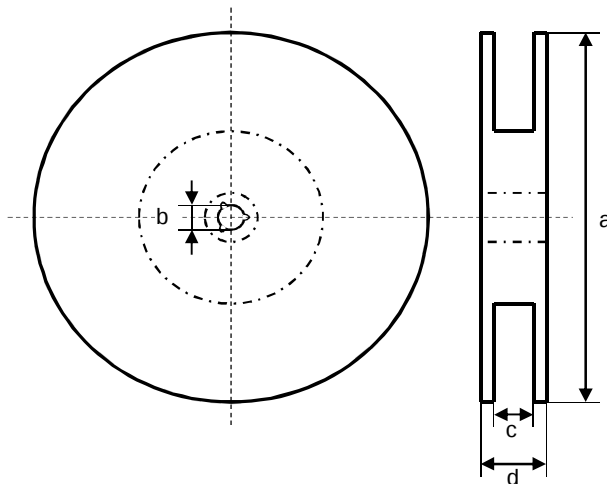


I Tape:

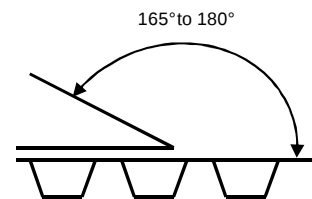


A	2.25 REF	mm
B	4.00 ± 0.10	mm
C	8.00 ± 0.20	mm
D	1.55 ± 0.05	mm
E	4.00 ± 0.10	mm
F	2.00 ± 0.05	mm
G	1.75 ± 0.10	mm
H	3.50 ± 0.05	mm
I	2.4 REF	mm
J	1.2 REF	mm
K	0.30 ± 0.02	mm

J Reel:



a	178.0 ± 2.0	mm
b	13.0 ± 0.8	mm
c	10.0 ± 1.5	mm
d	12.5 ± 2.0	mm



Quantity per Reel: 3000

General Release:

Customer

Date

Signature

Würth Elektronik

Checked

Approved

JB	Version 1	2010-01-27
Name	Modification	Date

This electronic component has been designed and developed for usage in general electronic equipment. Before incorporating this component into any equipment where higher safety and reliability is especially required or if there is the possibility of direct damage or injury to human body, for example in the range of aerospace, aviation, nuclear control, submarine, transportation, (automotive control, train control, ship control), transportation signal, disaster prevention, medical, public information network etc, Würth Elektronik eiSos GmbH must be informed before the design-in stage. In addition, sufficient reliability evaluation checks for safety must be performed on every electronic component which is used in electrical circuits that require high safety and reliability functions or performance.

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Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

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На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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