Customer:

Ordercode: **824013**

Description: TVS Diode Array WE-TVS

Package: SOT23-6L





DATUM / DATE : 2012-02-22

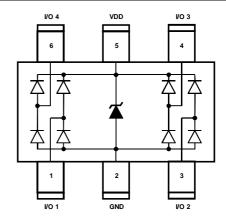
A Features:

• ESD Protection for 4 high-speed I/O channels and VDD

- Provide ESD protection for each channel to IEC 61000-4-2 (ESD) ±15kV (air), ±8kV (contact) IEC 61000-4-4 (EFT) 80A (5/50ns) IEC 61000-4-5 (Lightning) 12A (8/20µs)
- Up to 3.3V operating voltage
- Low capacitance: 3pF typical

Mechanical Characteristics:

- JEDEC SOT23-6L 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 (tp = 8/20µs)	I _{PP}	12	A
Operating Supply Voltage, VDD to GND	V _{DC}	3.8	V
ESD per IEC 61000-4-2 (Air / Contact), I/O to GND	$V_{ESD,IO}$	30 / 24	kV
ESD per IEC 61000-4-2 (Air / Contact), VDD to GND	V _{ESD,VDD}	30 / 24	kV
DC Voltage at any I/O Pin	V _{IO}	(GND -0,5) to (VDD +0,5)	V
Operating Temperature	T _{Op}	-55 to +125	C
Storage Temperature	T _{Sto}	-20 to +60	C

D Electrical Characterisitcs:

Properties	Test Conditions	Value min	Value typ	Value max	Unit
					Onne
V_{RWM}	Pin 5 to Pin 2			3.3	V
V_{BV}	I _{BV} =1mA, Pin 5 to Pin 2	4.5			V
I _R	V _{Pin5} =5V, Pin 5 to Pin 2			5	μΑ
V _F	I _F = 15mA, Pin 2 to Pin 5	0.6		1	V
V _C	I _{PP} =5A, tp=8/20μs, I/O to GND		6.0		V
V _{Cl,IO}	I _{TLP} = 17A, I/O to GND		9.0		V
C _{IO}	V _{Pin5} =4V, V _{Pin2} =0V, V _{IO} =2.5V, f=1MHz, I/O to GND		3.0	3.5	pF
C _X	V _{Pin5} =5V, V _{Pin2} =0V, V _{IO} =2.5V f=1MHz, between I/O pins		0.4	0.6	pF

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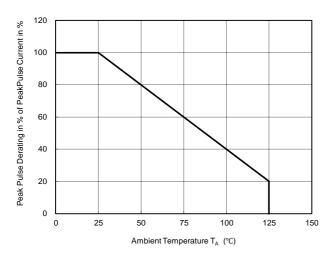
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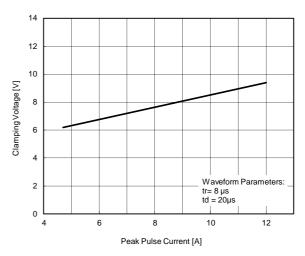


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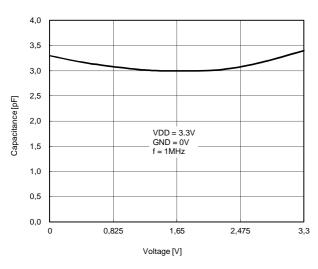
E Typical Characteristics:



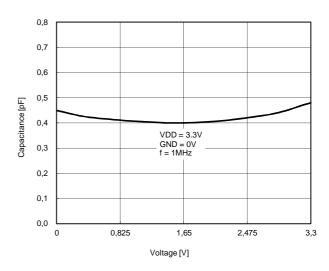
Power Derating Curve



Clamping Voltage vs. Peak Pulse Current



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



Variation of C_X vs. V_{IO}

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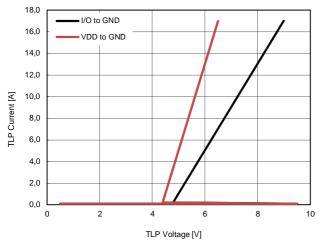
Description: TVS Diode Array WE-TVS

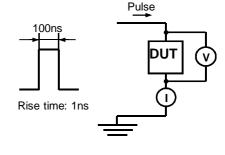
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ROHS WÜRTH ELEKTRONIK

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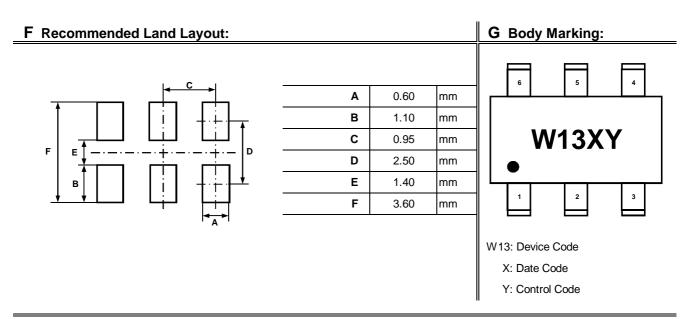
E Typical Characteristic:





Transmission Line Pulsing (TLP) Measurement

Transmission Line Pulsing System



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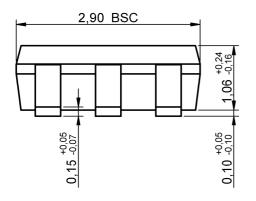
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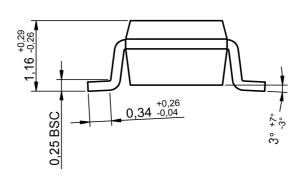
Package: SOT23-6L

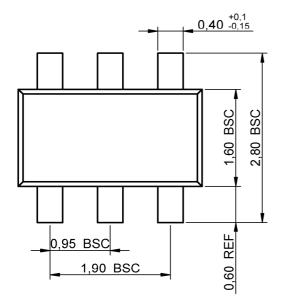


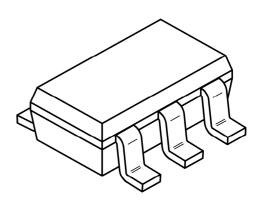
DATUM / DATE : 2012-02-22

H Dimensions:









Scale - 10:1

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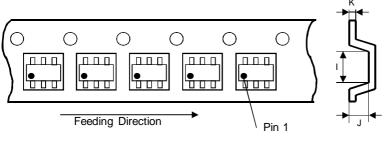
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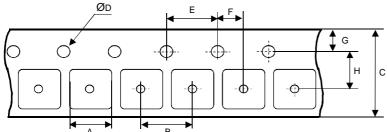




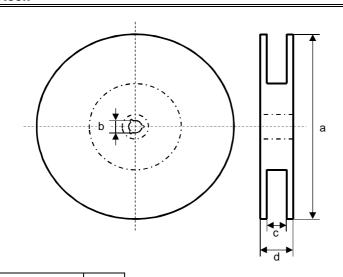
I Tape:



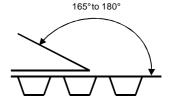
Α	3.15 ± 0.15	mm
В	4.00 ± 0.10	mm
С	8.00 ± 0.20	mm
D	1.55 ± 0.05	mm
Е	4.00 ± 0.10	mm
F	2.00 ± 0.05	mm
G	1.75 ± 0.10	mm
Н	3.50 ± 0.05	mm
I	3.25 ± 0.15	mm
J	1.35 ± 0.15	mm
K	0.25 ± 0.02	mm



J Reel:



а	178.0 ± 2.0	mm
b	13.0 ± 0.8	mm
С	10.0 ± 1.5	mm
d	12.5 ± 2.0	mm



Quantity per F	Reel: 3000
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General Release:	Customer			
General Nelease.				
Date	Signature			
	Würth Elektronik			
		JB	Version 2	2012-02-22
		JB	Version 1	2010-01-27
Checked	Approved	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

Würth Elektronik eiSos GmbH & Co. KG