Customer:

Ordercode: **824011**

Description: TVS Diode Array WE-TVS

Package: SOT23-5L





DATUM / DATE : 2010-01-27

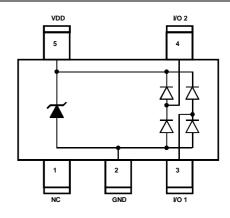
A Features:

• ESD Protection for 2 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) 40A (5/50ns) IEC 61000-4-5 (Lightning) 12A (8/20µs)
- Below 5V operating voltage: 2.5 3.3 4.2 5.0V
- Low capacitance: 2pF typical

Mechanical Characteristics:

- JEDEC SOT23-5L 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}	12.0	А
Operating Supply Voltage, VDD to GND	V _{DC}	6	V
ESD per IEC 61000-4-2 (Air / Contact), I/O to GND	$V_{ESD,IO}$	20 / 12	kV
ESD per IEC 61000-4-2 (Air / Contact), VDD to GND	$V_{ESD,VDD}$	20 / 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 +125	C
Storage Temperature	T _{Sto}	-20 to +60	C

D Electrical Characterisitcs:

Properties	Test Conditions	Value min	Value typ	Value max	Unit
					Onit
V_{RWM}	Pin 5 to Pin 2			5	V
V_{BV}	I _{BV} =1mA, Pin 5 to Pin 2	6.1			V
I _R	V _{Pin5} =5V, Pin 5 to Pin 2			5	μΑ
V _F	I _F = 15mA, Pin 2 to Pin 5		0.7	1	V
V _C	I _{PP} =5A, tp=8/20μs, I/O to GND		7.8	8.5	V
V _{Cl,IO}	I _{TLP} = 17A, I/O to GND		13		V
C _{IO}	V _{Pin5} =5V, V _{Pin2} =0V, V _{IO} =2.5V, f=1MHz, I/O to GND		2	3	pF
C _X	V _{Pin5} =5V, V _{Pin2} =0V, V _{IO} =2.5V f=1MHz, between I/O pins		0.1	0.2	pF

Customer:

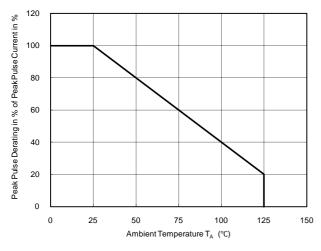
Ordercode: **824011**

Description: TVS Diode Array WE-TVS

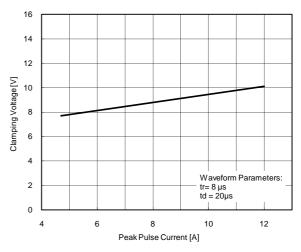


DATUM / DATE : 2010-01-27

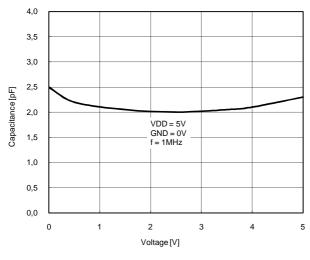
E Typical Characteristics:



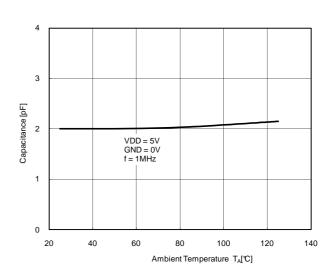
Power Derating Curve



Clamping Voltage vs. Peak Pulse Current



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



Variation of C_{IO} vs. Temperature

Customer:

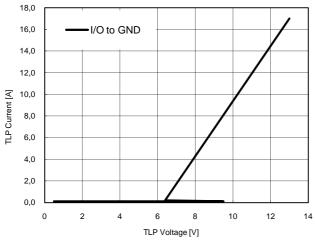
Ordercode: **824011**

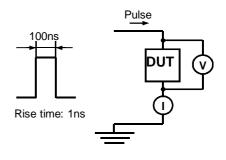
Description: TVS Diode Array WE-TVS



DATUM / DATE : 2010-01-27

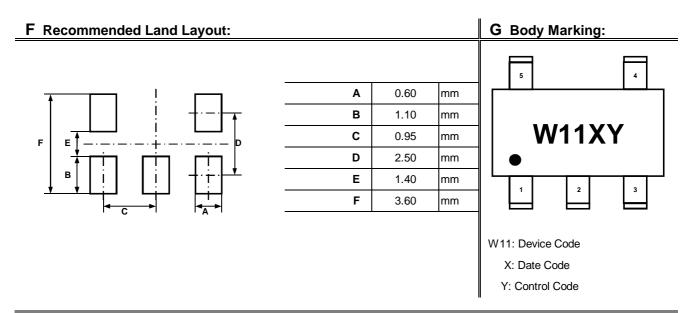
E Typical Characteristic:





Transmission Line Pulsing (TLP) Measurement

Transmission Line Pulsing System



Customer:

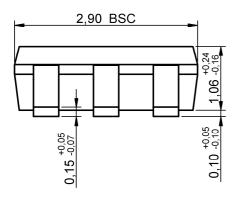
Ordercode: **824011**

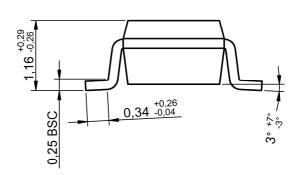
Description: TVS Diode Array WE-TVS

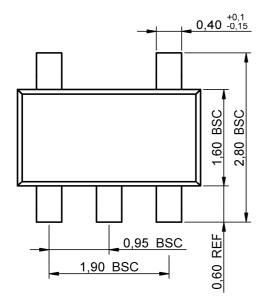


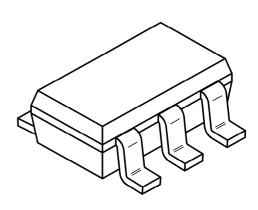
DATUM / DATE : 2010-01-27

H Dimensions:









Scale - 10:1

Customer : Ordercode:

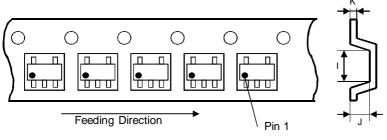
824011

Description: TVS Diode Array WE-TVS

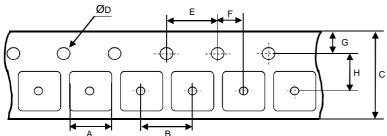




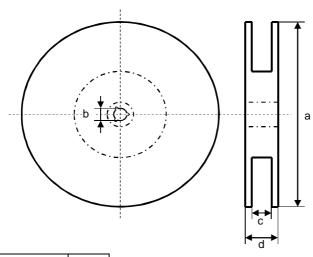
I Tape:



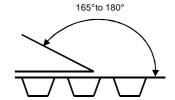
Α	4.00 ± 0.10	mm
В	4.00 ± 0.10	mm
С	8.00 ± 0.20	mm
D	1.55 ± 0.05	mm
Е	4.00 ± 0.10	mm
F	2.00 ± 0.05	mm
G	1.75 ± 0.10	mm
Н	3.50 ± 0.05	mm
I	3.25 ± 0.15	mm
J	1.35 ± 0.15	mm
K	0.25 ± 0.02	mm



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	, ner	Reel:	3000
Qualitity	, bei	iveei.	3000

General Release:	Customer			
General Nelcase.				
Date	Signature			
	Würth Elektronik			
		JB	Version 2	2010-01-27
		JB	Version 1	2008-10-13
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