

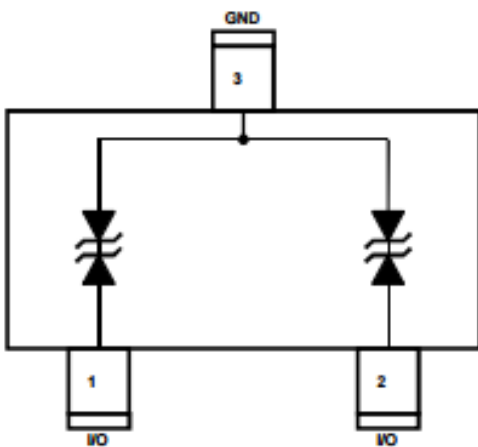
Professionally approved products.

Datasheet

Würth Elektronik 82400102, Uni-Directional TVS Diode Array, 7.7V, 6-pin SOT-23

RS Stock number [754-6200](#)

Dimensions (mm)



A Features:

- ESD Protection for 2 Lines - bidirectional
- Provide ESD Protection for each line to
IEC 61000-4-2 (ESD) $\pm 15\text{kV}$ (air), $\pm 8\text{kV}$ (contact)
IEC 61000-4-4 (EFT) 40A (5/50ns)
IEC 61000-4-5 (Lightning) 8A (8/20 μs)
- Below 5V operating voltage: 2.5 - 3.3 - 4.2 - 5.0V
- Protect two I/O or Power Lines

Mechanical Characteristics:

- JEDEC SOT23-3L Package
- Molding compound flammability rating: UL94V-0
- Packaging: Tape & Reel

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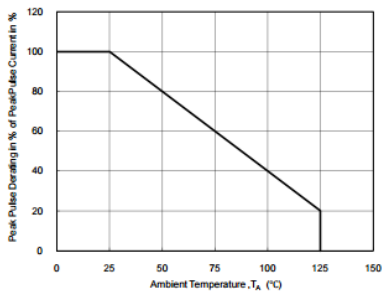
C Absolute Maximum Ratings:

	Symbol	Rating	Unit
Peak Pulse Current (tp = 8/20μs)	I _{pp}	8	A
ESD per IEC 61000-4-2 (Air / Contact), I/O to GND	V _{ESD}	20 / 12	kV
Operating Temperature	T _{Op}	-55 to +125	°C
Storage Temperature	T _{Stg}	-20 to +60	°C

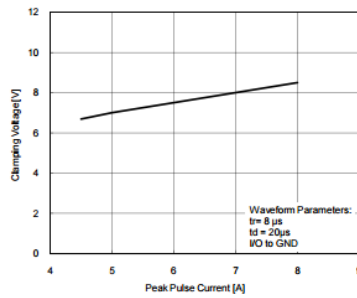
D Electrical Characteristics:

Properties	Test Conditions	Value min	Value typ	Value max	Unit
V _{RVM}	I/O to GND			5	V
V _{BV}	I _{IV} =1mA, I/O to GND	6.1			V
I _R	V _{RVM} =5V, I/O to GND			2.5	μA
V _C	I _{pp} =5A, tp=8/20μs, I/O to GND		7	8	V
V _{CUO}	I _{TLP} = 17A, I/O to GND		9		V
V _{CLVDD}	I _{TLP} = 17A, I/O to I/O		11		V
C _{IO}	V _{IO} =0V, f=1MHz, I/O to GND		12	15	pF

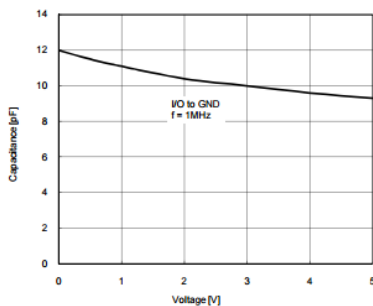
E Typical Characteristics:



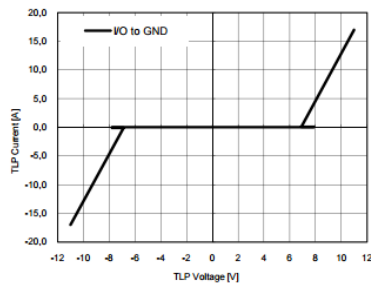
Power Derating Curve



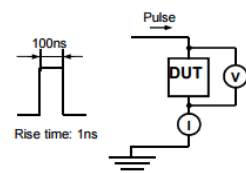
Clamping Voltage vs. Peak Pulse Current



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



Transmission Line Pulsing (TLP) Measurement

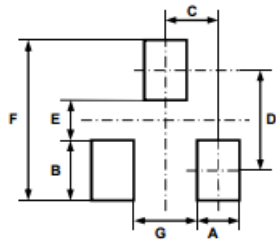


Transmission Line Pulsing System

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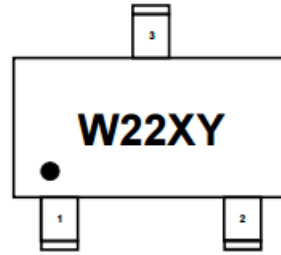
Datasheet

F Recommended Land Layout:



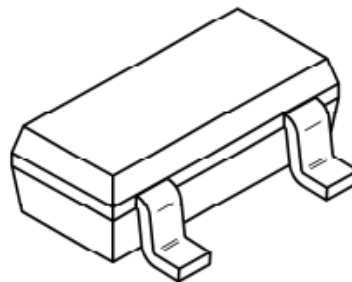
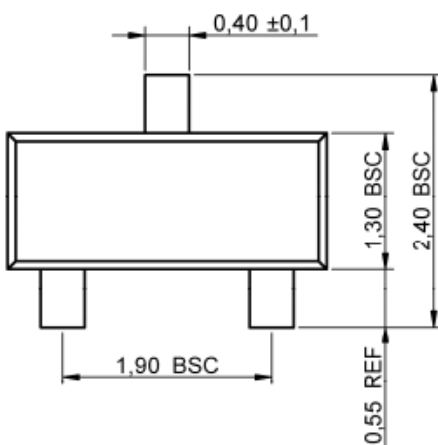
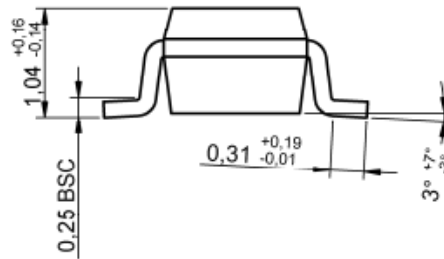
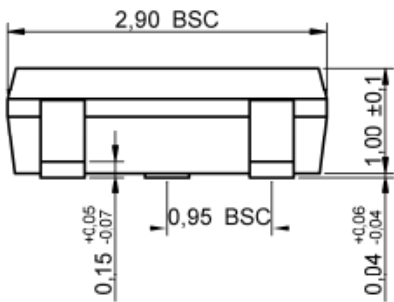
A	0.9	mm
B	1.4	mm
C	0.95	mm
D	2.1	mm
E	0.7	mm
F	3.5	mm
G	1.0	mm

G Body Marking:



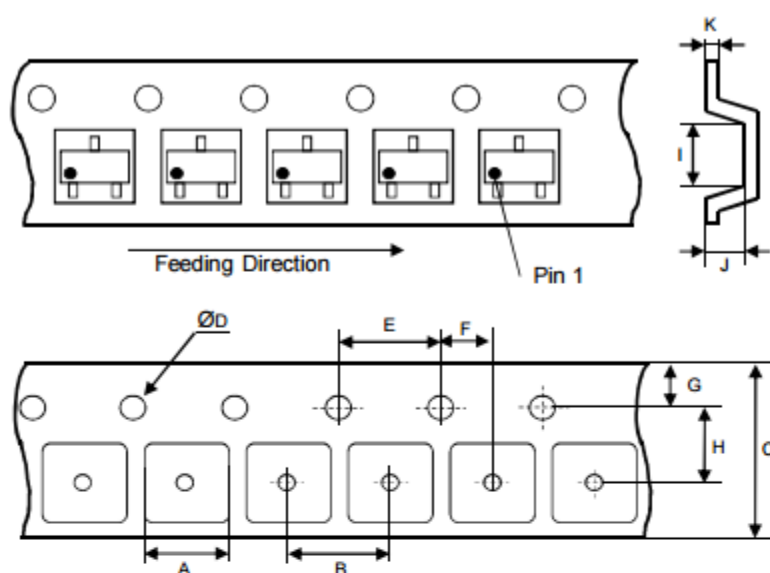
W22: Device Code
X: Date Code
Y: Control Code

H Dimensions



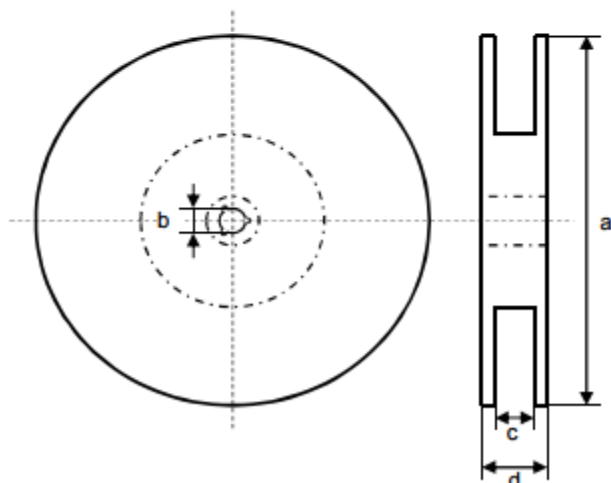
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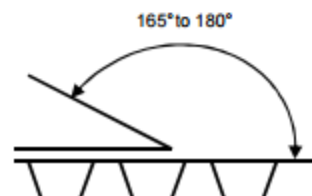


A	4.00 ± 0.10	mm
B	4.00 ± 0.10	mm
C	8.00 ± 0.20	mm
D	1.55 ± 0.05	mm
E	4.00 ± 0.10	mm
F	2.00 ± 0.05	mm
G	1.75 ± 0.10	mm
H	3.50 ± 0.05	mm
I	3.25 ± 0.15	mm
J	1.35 ± 0.15	mm
K	0.25 ± 0.02	mm

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