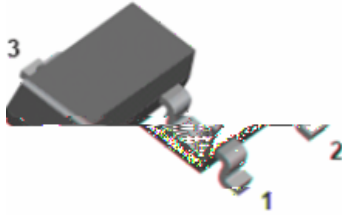
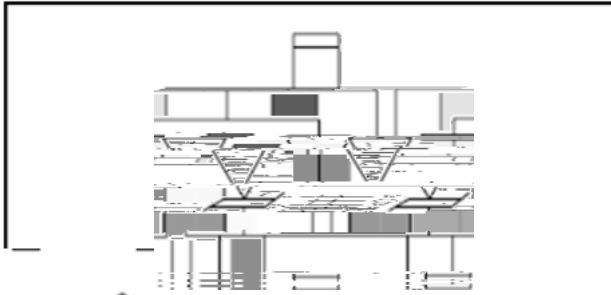


## 2-Line un-directional TVS Diode Array



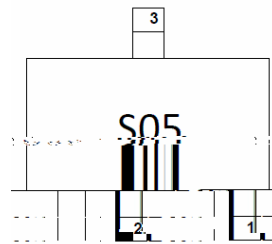
SOT-23

### Features

- 320W peak pulse power (8/20 $\mu$ s)
- Protects two signal lines
- Operating voltage: 5V
- Low clamping voltage
- RoHS Compliant

### Mechanical Characteristics

- Package: SOT-23
- Lead Finish: Matte Tin
- Case Material: "Green" Molding Compound.
- Moisture Sensitivity: Level 1 per J-STD-020
- Marking Information: See Below



### Absolute Maximum Ratings (Ta=25°C unless otherwise specified)

PARAMETER	SYMBOL	VALUE	UNIT
Operating Temperature Range	T <sub>J</sub>	-55 to +125	
Storage Temperature Range	T <sub>STG</sub>	-55 to +150	
ESD per IEC 61000-4-2 (Air)	V <sub>ESD</sub>	±30	KV
ESD per IEC 61000-4-2 (Contact)		±30	KV
Peak Pulse Power(8/20 $\mu$ s)	P <sub>PK</sub>	320	W
Peak Pulse Current(8/20 $\mu$ s)	I <sub>PP</sub>	23	A

### Electrical Characteristics Ta=25 Unless otherwise specified

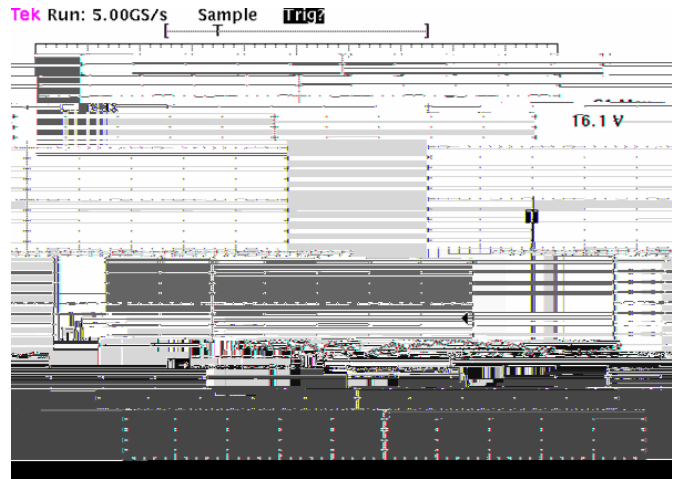
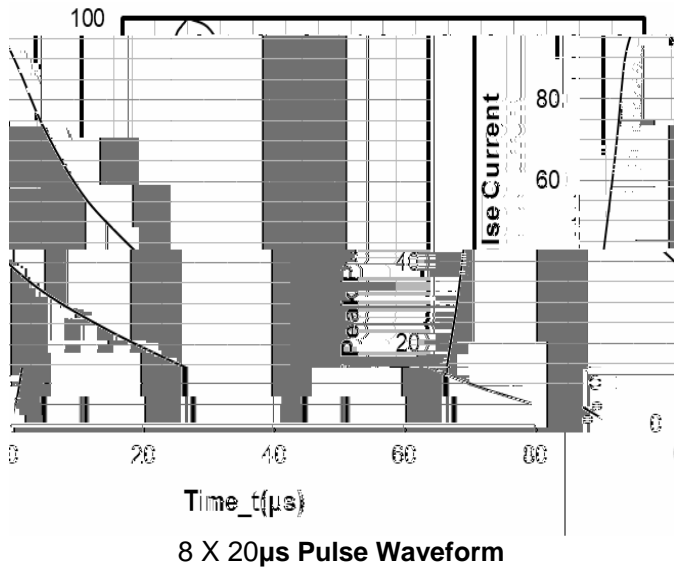
PARAMETER	Symbol	UNIT	Conditions	Min	Typ	Max
Reverse Working Voltage	V <sub>RWM</sub>	V				5
Reverse Leakage Current	I <sub>R</sub>	$\mu$ A	V <sub>RWM</sub> =5V any I/O pin to ground			0.5
Forward Voltage	V <sub>F</sub>	V	I <sub>F</sub> =10mA	0.2	0.8	1.2
Breakdown Voltage	V <sub>(BR)</sub>	V	I <sub>T</sub> =1mA	6		
Clamping Voltage	V <sub>C</sub>	V	I <sub>PP</sub> =1A (8 x 20 $\mu$ s pulse) any I/O pin to ground			8
Clamping Voltage	V <sub>C</sub>	V	I <sub>PP</sub> =23A (8 x 20 $\mu$ s pulse) any I/O pin to ground			14
Junction Capacitance	C <sub>J</sub>	pF	V <sub>R</sub> =0V, f=1MHz, any I/O pin to ground		160	



**Thermal Characteristics**    $T_a=25$

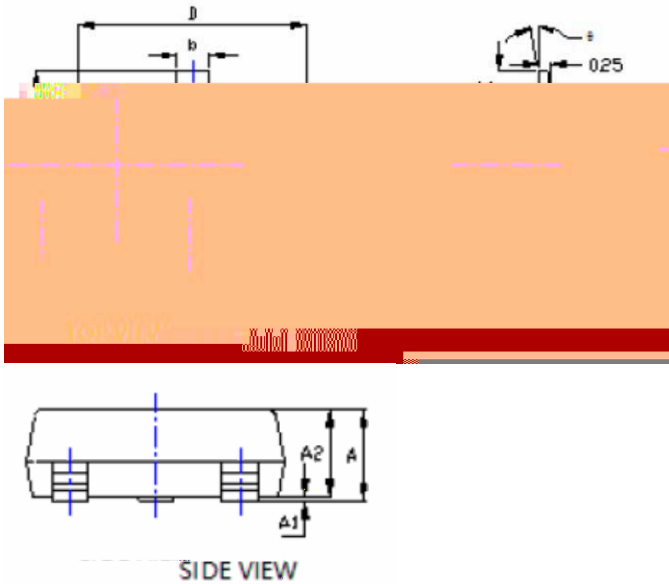


# ASM05



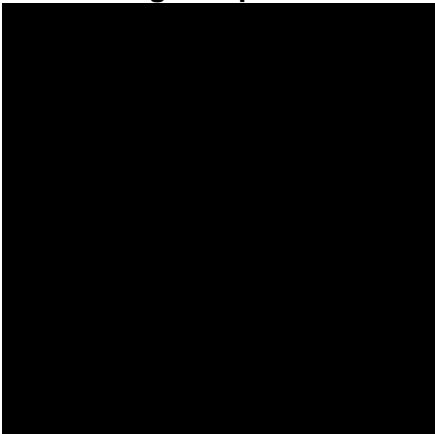
Note Data is taken with a 10x attenuator  
ESD Clamping Voltage  
8 kV Contact per IEC61000-4-2

## Outline Dimensions



DIMENSIONS		Unit: mm	
MAX	MIN	TYP	MAX
0.0045	0.0030	0.0045	0.0045
0.050	A2	0.035	0.041
0.200		0.004	0.008
0.500		0.020	0.020
0.500		0.012	0.020

## Soldering Footprint





## ASM05

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