

2-Line un-directional TVS Diode Array

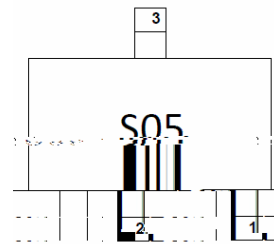


Features

- 320W peak pulse power (8/20μs)
- Protects two channels at a level of 5V
- 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 _J	-55 to +125	
Storage Temperature Range	T _{STG}	-55 to +150	
ESD per IEC 61000-4-2 (Air)	V _{ESD}	±30	KV
ESD per IEC 61000-4-2 (Contact)		±30	KV
Peak Pulse Power(8/20μs)	P _{PK}	320	W
Peak Pulse Current(8/20μs)	I _{PP}	23	A

■Electrical Characteristics Ta=25 Unless otherwise specified

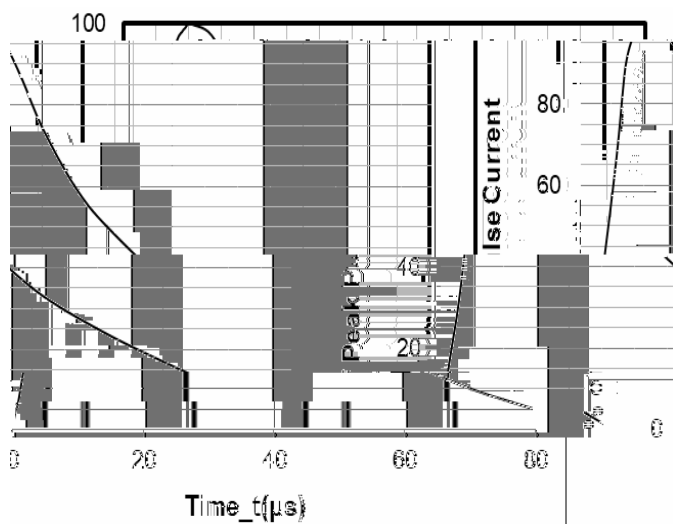
PARAMETER	Symbol	UNIT	Conditions	Min	Typ	Max
Reverse Working Voltage	V _{RWM}	V				5
Reverse Leakage Current	I _R	uA	V _{RWM} =5V any I/O pin to ground			0.5
Forward Voltage	V _F	V	I _F =10mA	0.2	0.8	1.2
Breakdown Voltage	V _(BR)	V	I _T =1mA	6		
Clamping Voltage	V _C	V	I _{PP} =1A (8 x 20μs pulse) any I/O pin to ground			8
Clamping Voltage	V _C	V	I _{PP} =23A (8 x 20μs pulse) any I/O pin to ground			14
Junction Capacitance	C _J	pF	V _R =0V, f=1MHz , any I/O pin to ground		160	



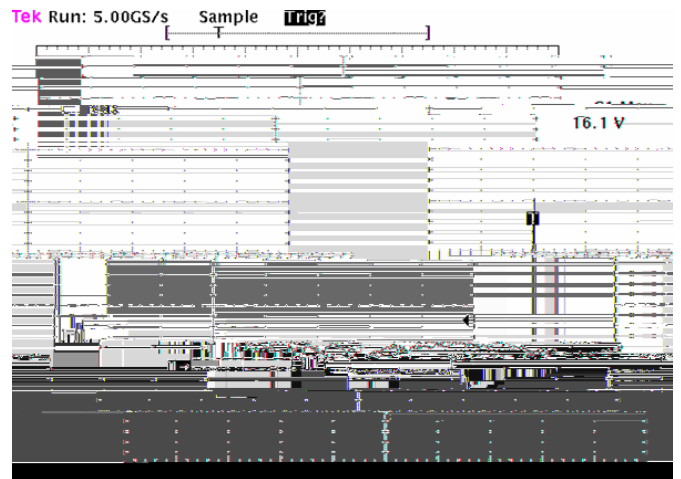
■ Thermal Characteristics $T_a=25$



ASM05

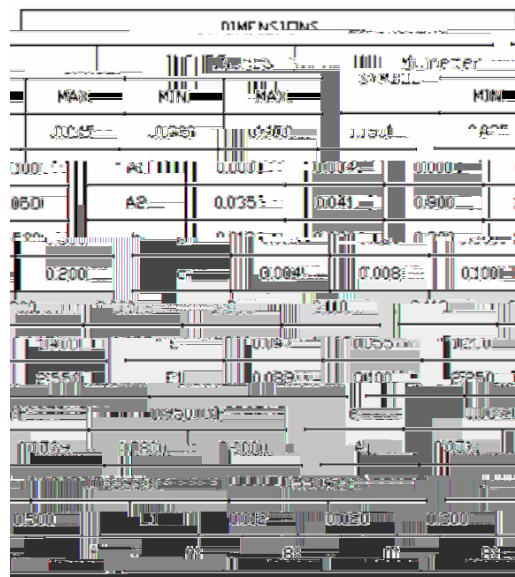
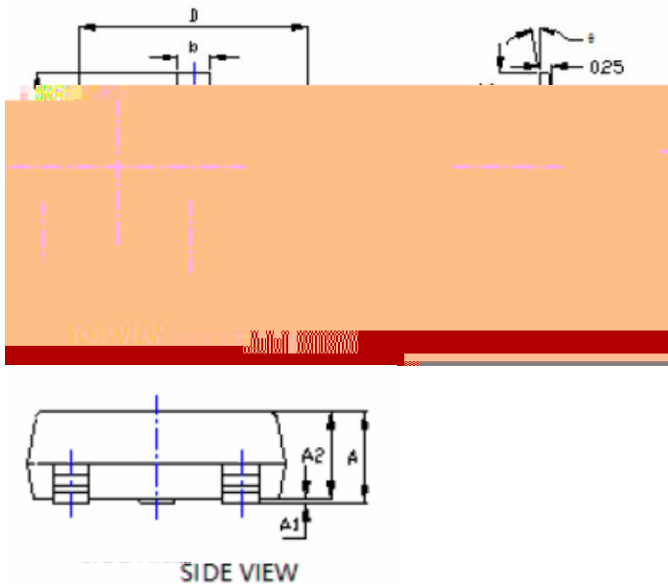


8 X 20 μ s Pulse Waveform

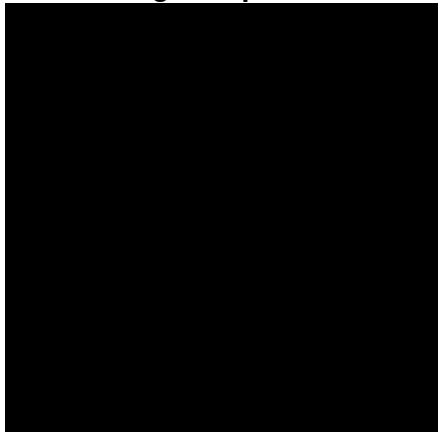


Note Data is taken with a 10x attenuator
ESD Clamping Voltage
8 kV Contact per IEC61000-4-2

■ Outline Dimensions



■ Soldering Footprint





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