SMDA05-6R2

Unidirectional TVS Array for High-Speed Data Line Protection

The SMDA05-6R2 transient voltage suppressor is designed to protect equipment attached to up to six high speed communication lines from ESD, EFT, and lightning.

Features:

- SO-8 Package
- Peak Power 400 Watts 8 x 20 µS
- ESD Rating: IEC 61000-4-2 (ESD) 15 kV (air) 8 kV (contact) IEC 61000-4-4 (EFT) 40 A (5/50 ns) IEC 61000–4–5 (lightning) 12 (8/20 µs)
- UL Flammability Rating of 94 V-0

Typical Applications:

- High Speed Communication Line Protection
- 5.0 V Data and I/O Lines
- Microprocessor Based Equipment
- LAN/WAN Equipment
- Servers
- Notebook and Desktop PC
- Instrumentation
- Peripherals

MAXIMUM RATINGS

 Servers Notebook and Desktop PC Instrumentation Peripherals 	5			ON FOR
Rating	Symbol	Value	Unit	
Peak Power Dissipation 8 x 20 μs @ T _A = 25°C (Note 1)	P _{pk}	400	W	
Peak Pulse Current 8 x 20 μs @ T _A = 25°C (Note 1)	Ipp	17	A	
Junction and Storage Temperature Range	T _J , T _{stg}	-55 to +150	°C	
Lead Solder Temperature – Maximum 10 Seconds Duration	T	260	°C	

1. Non-repetitive current pulse 8 x 20 µS exponential decay waveform

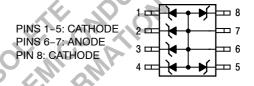


ON Semiconductor®

http://onsemi.com

SO-8 VOLTAGE SUPPRESSOR 300 WATTS PEAK POWER 6 VOLTS

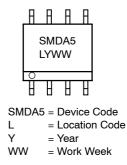




SO-8

CASE 751 PLASTIC

MARKING DIAGRAM



ORDERING INFORMATION

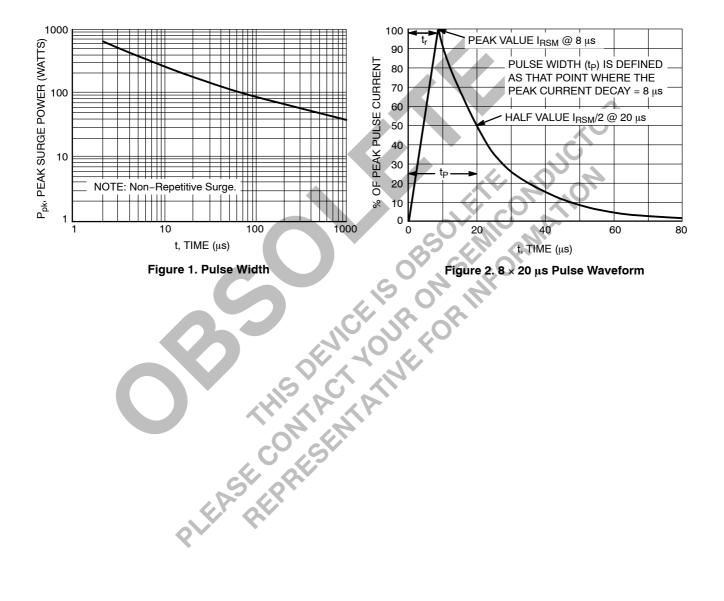
Device	Package	Shipping [†]
SMDA05-6R2	SO-8	2500 Tape & Reel

+For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification Brochure, BRD8011/D.

SMDA05-6R2

ELECTRICAL CHARACTERISTICS

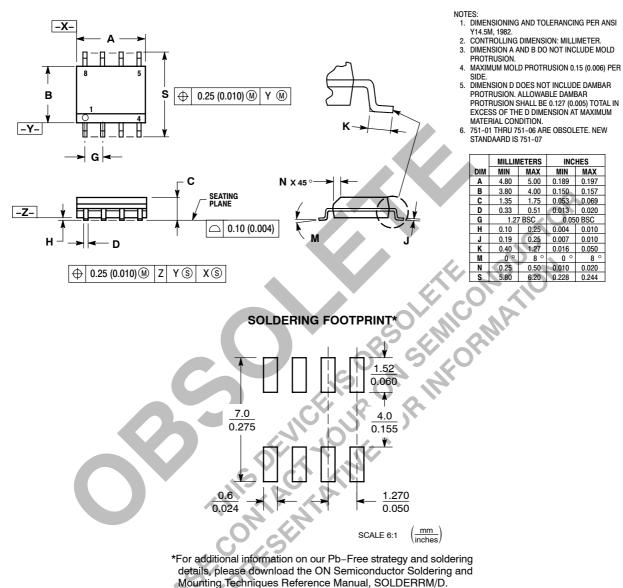
Characteristic	Symbol	Min	Тур	Max	Unit
Reverse Breakdown Voltage @ $I_t = 1.0 \text{ mA}$	V _{BR}	6.0	-	-	V
Reverse Leakage Current @ V _{RWM} = 5.0 Volts	I _R	N/A	-	20	μA
Maximum Clamping Voltage @ I_{PP} = 1.0 A, 8 x 20 μ S	V _C	N/A	-	9.8	V
Maximum Clamping Voltage @ I_{PP} = 5.0 A, 8 x 20 μ S	V _C	N/A	-	11	V
Maximum Peak Pulse Current	I _{PP}	-	-	17	А



SMDA05-6R2

PACKAGE DIMENSIONS

SO-8 CASE 751-07 ISSUE AB



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