



SURFACE MOUNT DIODE ARRAY TRANSZORB TVS 8 PIN UNIDIRECTIONAL &

UNIDIRECTIONAL & BIDIRECTIONAL 5.0 THRU 24 VOLTS

FEATURES

- · 300 watts peak pulse power
- · Data and Bus Line Applications
- Unidirectional & Bidirectional
- Standard SO-8 package

MAXIMUM RATINGS

- Peak Pulse Power (8/20µs): 300 watts
- Operating and Storage Temperature Range: -55°C to +150°C
- · Repetition Rate (duty cycle): 01%

MECHANICAL CHARACTERISTICS

- · Molded SO-8 Surface Mount
- · Terminals: Solder dipped
- Body marked with device code and logo
- Pin No. 1 marked with dot on top of package
- Unidirectional cathode on bevelled side of device

DESCRIPTION

This family of TransZorb® TVS diode arrays are designed for surface mount applications such as smart cards, cameras and other electronic circuitry which require multiple protection with limited board space. These are available as unidirectional or bidirectional devices employing TransZorb TVS technology. They can provide board level protection for TTL and MOS logic circuits against every form of FSD threat

These devices are best used at the board interface on all I/O ports and power input bus lines. For best results, separate units are required for data lines and power bus lines. If subjected to a transient current beyond their peak pulse capability, the units will either short or open circuit. The low profile package is designed to minimize lead inductance without sacrificing maximum transient current handling capability.

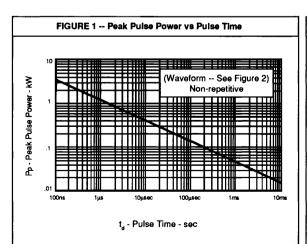
CASE

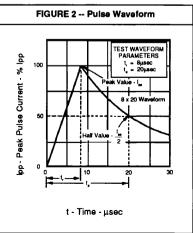




ABBREVIATIONS & SYMBOLS

- Stand Off Voltage: Applied Reverse Voltage to assure a nonconductive condition. (See Note.)
- V_C Maximum Ctamping Voltage: The maximum peak voltage appearing across the TransZorb TVS when subjected to the peak pulse current waveform of 8 by 20µs. The peak pulse voltages are the combination of voltage rise due to both the series resistance and thermal rise.
- I_{pp} Peak Pulse Current P_p Peak Pulse Power I_p Reverse Leakage
- NOTE: A TransZorb TVS is normally selected according to the Reverse Stand Off Voltage (V_p) which should be equal to or greater than the dc or continuous peak operating voltage level.





ELECTRICAL CHARACTERISTICS @ 25°C							
GENERAL SEMICONDUCTOR PART NUMBER	DEVICE MARKING CODE	REVERSE STAND-OFF VOLTAGE	MINIMUM BREAKDOWN VOLTAGE @ 1mA	MAXIMUM CLAMPING VOLTAGE @ 1A (8/20jus)	MAXIMUM CLAMPING VOLTAGE @ 5A (8/20µa)	LEAKAGE CURRENT @ V _p	CAPACITANCE @ 0V, 1MHz
UNIDIRECTIONAL BIDIRECTIONAL		V _p Volts	BV _(min) Volts	۷ _c Voits	V _c Volts	_6 ≰	ОF
SMDA05 SMDA05C SMDA12 SMDA12C SMDA15 SMDA15C	SDA SDB SDC SDD SDE SDF	5.0 5.0 12 12 15	6.0 6.0 13.3 13.3 16.7 16.7	9.8 9.8 19 19 24 24	11 11 24 24 30 30	100 100 1 1 1	550 400 185 150 140
SMDA24 SMDA24C	SDG SDH	24 24	26.7 26.7	43 43	55 55	1	88 63

SURFACE MOUNT DIODE ARRAY TRANSZORB TVS 8 PIN UNIDIRECTIONAL & BIDIRECTIONAL 5.0 THRU 24 VOLTS

