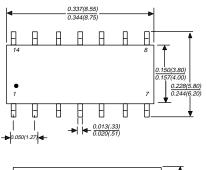
SMDA05C-8 THRU SMDA24C-8

SURFACE MOUNT DIODE ARRAY TRANSIENT VOLTAGE SUPPRESSOR

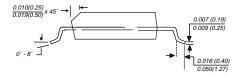
Stand-off Voltage - 5.0 to 24 Volts Peak Pulse F

Peak Pulse Power - 300 Watts

SO-14/MS-012-AB







Dimensions in inches and (millimeters)

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Offers ESD protection in accordance with IEC1000-4-2 (IEC801-2)
- Monolithic TVS junctions
- ♦ 300W peak pulse power surge capability
- Excellent clamping capability
- Protection of up to eight data lines
- Fast response time: typically less than 5.0ns from 0 volts to V(BR)
- High temperature soldering guaranteed: 265°C for 5 seconds at terminals

MECHANICAL DATA

Case: JEDEC MS-012-AB molded plastic, over passivated junctions

Terminal: Plated, solderable per MIL-STD-750, Method 2026

Polarity: Bidirectional as marked

Mounting Position: Any

Weight: 0.07 ounce, 1.75 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

RATING	SYMBOL	VALUE	UNITS	
Peak power dissipation with a 8.0/20µs	Рррм	Minimum 300	Watts	
Peak power pulse current with a	SMDA05C-8		20.0	
8.0/20μs waveform (NOTE 1)	SMDA12C-8	Іррм	15.0	Amps
	SMDA15C-8		12.0	
	SMDA24C-8		7.5	
Operating junction and storage tempera	TJ,TSTG	-50 to +125	°C	

NOTES:

(1) Non-repetitive current pulse, per Fig.3 and derated above TA=25°C per Fig. 2 (2) Mounted on copper pad areas of 0.045 x 0.030" (1.14 x 0.076mm) per leg

BIDIRECTIONAL APPLICATIONS

All electrical characteristics apply in both directions

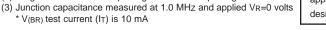


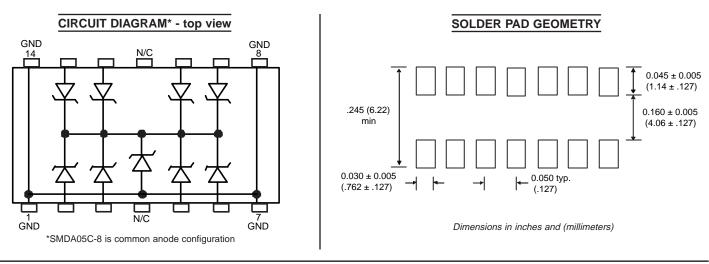
ELECTRICAL CHARACTERISTICS at 25°C										
PART NUMBER	DEVICE MARKING CODE	STAND-OFF VOLTAGE	MINIMUM BREAKDOWN VOLTAGE at IT=1.0mA (NOTE 1)	MAXIMUM CLAMPING VOLTAGE at IPP = 1A	MAXIMUM CLAMPING VOLTAGE at IPP = 5A	MAXIMUM REVERSE LEAKAGE CURRENT at Vwm	MAXIMUM JUNCTION CAPACITANCE (NOTE 3)			
BIDIREC	TIONAL	V _{WM} Volts	V _(BR) Volts	V _{C (NOTE 2)} Volts	V _{C (NOTE 2)} Volts	Ι _D μΑ	С _Ј pF			
SMDA05C-8	SEB	5.0	6.0*	9.8	11.0	100.0	350			
SMDA12C-8	SED	12.0	13.4	19.0	24.0	1.0	150			
SMDA15C-8	SEF	15.0	16.7	24.0	30.0	1.0	120			
SMDA24C-8	SEH	24.0	26.7	43.0	55.0	1.0	100			

NOTES:

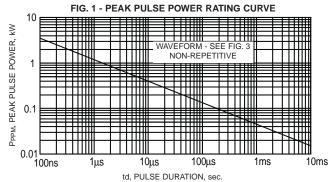
(1) $V_{(BR)}$ measured at pulse width of 300 μs sq. wave or equivalent (2) Surge current waveform per Fig. 3 and derate per Fig. 2

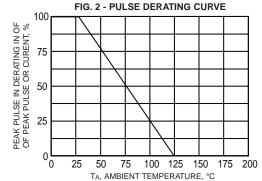
ant apply to the differential voltage between any two data line pins. Hence the SMDA12C-8 is designed to "see" a maximum voltage excursion of \pm 6 volts between any two data lines.

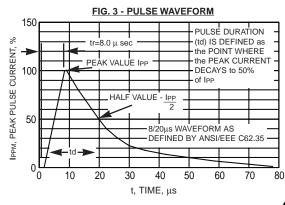




RATING AND CHARACTERISTIC CURVES FOR SMDA05C-8 THRU SMDA24C-8









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