

# TYPICAL DEVICE CHARACTERISTICS

MAXIMUM RATINGS @ 25°C Unless Otherwise Specified								
PARAMETER	SYMBOL	VALUE	UNITS					
Operating Temperature	T <sub>L</sub>	-55 to 150	°C					
Storage Temperature	T <sub>stg</sub>	-55 to 150	°C					
Peak Pulse Power (tp = $8/20\mu s$ ) - See Figure 1	P <sub>PP</sub>	500	Watts					
Forward Voltage @ 100mA, 300μs - Square Wave (See Note 1)	V <sub>F</sub>	1.5	Volts					
NOTE 1. Only applies to unidirectional devices.	•							

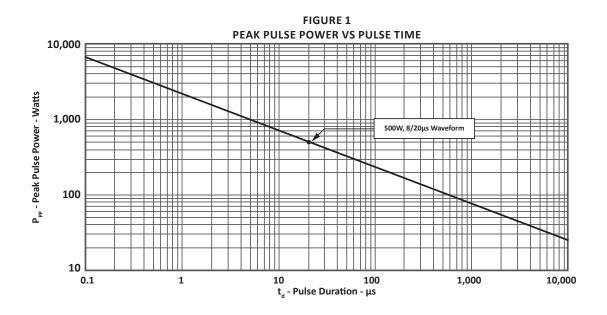
ELECTRICAL CHARACTERISTICS PER LINE @ 25°C Unless Otherwise Specified										
PART NUMBER (Note 1)	DEVICE MARKING	RATED STAND-OFF VOLTAGE	MINIMUM BREAKDOWN CLAMPING VOLTAGE (Fig. 2)  @1mA @Ip = 1A		MAXIMUM CLAMPING VOLTAGE (Fig. 2)	MAXIMUM CURRENT	MAXIMUM LEAKAGE CURRENT	MAXIMUM CAPACITANCE		
		V <sub>wM</sub> VOLTS	V <sub>(BR)</sub>	واړ - TA V <sub>c</sub> VOLTS	@I <sub>p</sub> = 5A V <sub>c</sub> VOLTS	Ι <sub>բբ</sub> @ 8/20μs AMPS	@V <sub>wм</sub> Ι <sub>D</sub> μΑ	C pF		
SMDA03	SDL	3.3	4.0	6.5	7.0	43.0	125	800		
SMDA03C	SDM	3.3	4.5	7.0	9.0	43.0	125	450		
SMDA05	SDA	5.0	6.0	9.8	10.0	40.0	20	550		
SMDA05C	SDB	5.0	6.0	9.8	10.0	40.0	20	308		
SMDA08	SDJ	8.0	8.5	13.4	14.0	27.0	10	500		
SMDA08C	SDK	8.0	8.5	13.4	14.0	27.0	10	300		
SMDA12	SDC	12.0	13.3	19.0	22.0	20.0	1	185		
SMDA12C	SDD	12.0	13.3	19.0	22.0	20.0	1	105		
SMDA15	SDE	15.0	16.7	24.0	27.0	15.0	1	140		
SMDA15C	SDF	15.0	16.7	24.0	27.0	15.0	1	80		
SMDA24	SDG	24.0	26.7	43.0	45.0	12.0	1	88		
SMDA24C	SDH	24.0	26.7	43.0	45.0	12.0	1	50		
SMDA36	SDN	36.0	40.0	51.0	65.0	8.0	1	80		
SMDA36C	SDP	36.0	40.0	51.0	65.0	8.0	1	45		
NOTES										

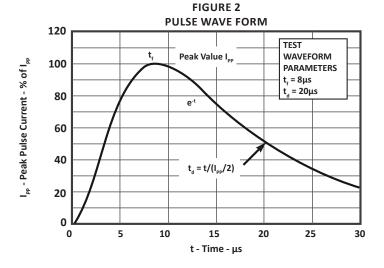
#### NOTES

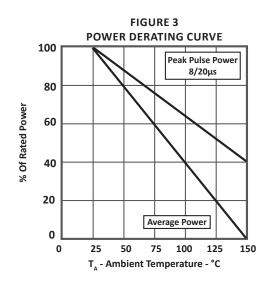
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<sup>1.</sup> Part numbers with a "C" suffix are bidirectional devices, i.e., SMDA03 $\underline{\textbf{C}}$ .

## **TYPICAL DEVICE CHARACTERISTICS**







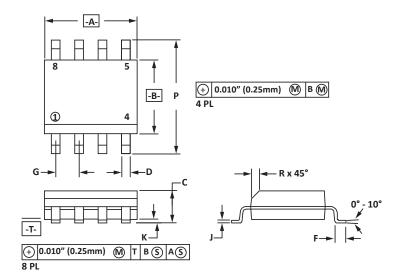


## **SO-8 PACKAGE INFORMATION**

OUTLINE DIMENSIONS								
DIM	MILLIN	IETERS	INCHES					
	MIN	MAX	MIN	MAX				
А	4.80	5.00	0.189	0.196				
В	3.80	4.00	0.150	0.157				
С	1.35	1.75	0.054	0.068				
D	0.35	0.49	0.014	0.019				
F	0.40	1.25	0.016	0.049				
G	1.27	BSC	0.05	BSC				
J	0.18	0.25	0.007	0.009				
K	0.10	0.25	0.004	0.008				
Р	5.80	6.20	0.229	0.244				
R	0.25	0.50	0.010	0.019				

### NOTES

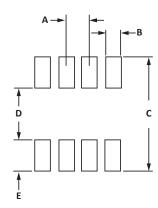
- 1. -T- = Seating plane and datum surface.
- 2. Dimensions "A" and "B" are datum.
- 3. Dimensions "A" and "B" do not include mold protrusion.
- 4. Maximum mold protrusion is 0.015" (0.380mm) per side.
- 5. Dimensioning and tolerances per ANSI Y14.5M, 1982.
- 6. Dimensions are exclusive of mold flash and metal burrs.



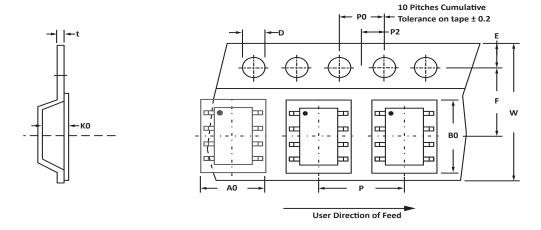
PAD LAYOUT DIMENSIONS								
DIM	MILLIN	IETERS	INCHES					
	MIN	MAX	MIN	MAX				
А	1.14	1.40	0.045	0.055				
В	0.64	0.89	0.025	0.035				
С	6.22	-	0.245	-				
D	3.94	4.17	0.155	0.165				
Е	1.02	1.27	0.040	0.050				

#### NOTES

1. Controlling dimension: inches.



## **TAPE AND REEL**



SPECIFICATIONS												
REEL DIA.	TAPE WIDTH	A0	В0	ко	D	E	F	w	P0	P2	Р	tmax
178mm (7")	12mm	6.50 ± 0.10	5.40 ± 0.10	2.00 ± 0.10	1.50 ± 0.10	1.75 ± 0.10	5.50 ± 0.05	12.00 ± 0.30	4.00 ± 0.12	2.00 ± 0.10	8.00 ± 0.10	0.25

### NOTES

- 1. Dimensions are in millimeters.
- 2. Surface mount product is taped and reeled in accordance with EIA-481.
- 3. Suffix T7 = 7" Reel 1,000 pieces per 12mm tape.
- 4. Suffix T13 = 13" Reel 2,500 pieces per 12mm tape.
- 5. Bulk product shipped in tubes of 98 pieces per tube.
- 6. Marking on Part marking code (see page 2), date code, logo and pin one defined by dot on top of package.

ORDERING INFORMATION									
BASE PART NUMBER (xx = Voltage)	LEADFREE SUFFIX	TAPE SUFFIX	QTY/REEL	REEL SIZE	TUBE QTY				
SMDAxx/SMDAxxC	-LF	-T7	1,000	7"	98				
SMDAxx/SMDAxxC	-LF	-T13	2,500	13"	98				
This device is only available in a Lead-Free configuration.									

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## **COMPANY INFORMATION**

#### **COMPANY PROFILE**

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