

## SURFACE MOUNT UNIDIRECTIONAL TRANSIENT VOLTAGE SUPPRESSORS

STAND-OFF VOLTAGE - 18 to 36 Volts POWER DISSIPATION - 5000 WATTS

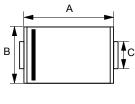
#### **FEATURES**

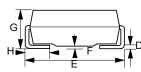
- For surface mounted applications
- Reliable low cost construction utilizing molded plastic technique
- Plastic material has UL flammability classification 94V-O
- Fast response time: typically less than 1.0ns

### **MECHANICAL DATA**

- Case : Molded plastic
- Polarity: by cathode band denotes uni-directional device none cathode band denotes bi-directional device
- Weight: 0.007 ounces, 0.21 gram

## SMC





SMC							
DIM.	MIN.	MAX.					
Α	6.60	7.11					
В	5.59	6.22					
С	2.92	3.18					
D	0.15	0.31					
E	7.75	8.13					
F	0.05	0.20					
G	2.01	2.40					
Н	0.76	1.52					
All Dimensions in millimeter							

# Datasheet.Support

#### **MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at  $25^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

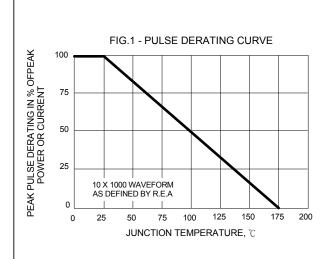
CHARACTERISTICS	SYMBOLS	VALUE	UNIT
PEAK POWER DISSIPATION AT TJ = $25^{\circ}$ C , TP = 1ms (Note 1)	Ррк	5000	WATTS
Peak Forward Surge Current 8.3ms single half sine-wave @TJ=25 ℃ (Note 2)	IFSM	300	AMPS.
Steady State Power Dissipation at TL =120 $^{\circ}\!$	PM(AV)	2.0	WATTS
Operating Temperature Range	TJ	-55 to +175	°C
Storage Temperature Range	Тѕтс	-55 to +175	°C

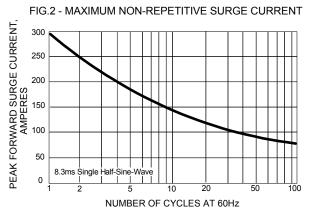
NOTES : 1. Non-repetitive current pulse, per Fig. 3 and derated above TJ= 25℃ per Fig.1.

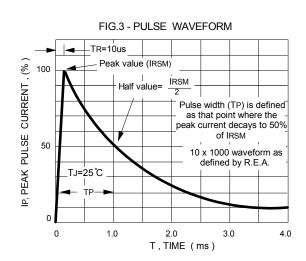
2. Only for unidirectional units.

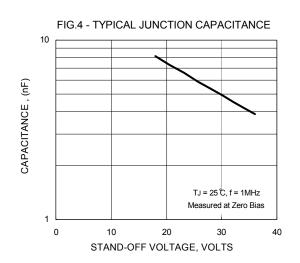
REV. 2, Nov-2010, KSIC03

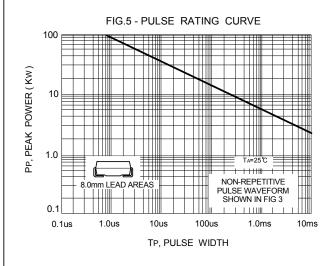


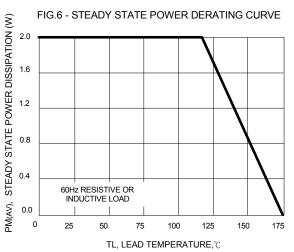














Type Number	Type Number	Dev Markin	/ice g code	Reverse Standoff Voltage	Breakdown Voltage BV Volts @lt		Max. Reverse Leakage @VR	Max. Clamping Voltage @Ipp	Max. Peak Pulse Current	
(UNI)	(BI)	(UNI)	(BI)	VR (V)	Min (V)	Max (V)	It (mA)	IR (uA)	Vc (V)	Ipp (A)
5.0SMCJ18		OES		18.0	20.0	24.4	1	5.0	32.2	155.3
5.0SMCJ18A		OET		18.0	20.0	22.1	1	5.0	29.2	171.2
5.0SMCJ20		OEU		20.0	22.2	27.1	1	5.0	35.8	139.7
5.0SMCJ20A		OEV		20.0	22.2	24.5	1	5.0	32.4	154.3
5.0SMCJ22		OEW		22.0	24.4	29.8	1	5.0	39.4	126.9
5.0SMCJ22A		OEX		22.0	24.4	27.0	1	5.0	35.5	140.8
5.0SMCJ24		OEY		24.0	26.7	32.6	1	5.0	43.0	116.3
5.0SMCJ24A		OEZ		24.0	26.7	29.5	1	5.0	38.9	128.5
5.0SMCJ26		OFD		26.0	28.9	35.3	1	5	46.6	107.3
5.0SMCJ26A		OFE		26.0	28.9	31.9	1	5	42.1	118.8
5.0SMCJ28		OFF		28.0	31.1	38.0	1	5	50.0	100.0
5.0SMCJ28A		OFG		28.0	31.1	34.4	1	5	45.4	110.1
5.0SMCJ30		OFH		30.0	33.3	40.7	1	5	53.5	93.5
5.0SMCJ30A		OFK		30.0	33.3	36.8	1	5	48.4	103.3
5.0SMCJ33		OFL		33.0	36.7	44.8	1	5	59.0	84.7
5.0SMCJ33A		OFM		33.0	36.7	40.6	1	5	53.3	93.8
5.0SMCJ36		OFN		36.0	40.0	48.9	1	5	64.3	77.8
5.0SMCJ36A		OFP		36.0	40.0	44.2	1	5	58.1	86.1

NOTES:

Suffix 'A' denotes 5% tolerance device, no suffix denotes 10% tolerance device .



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