

W.

### E480232

## **Features**

- AEC-Q101 Qualified
- Meet ISO7637-2 5a Surge Specification
- · Low Leakage
- · Glass Passivated Junction
- · Polarity: Heatsink is Anode
- · Excellent Clamping Capability
- · Uni-directional Polarity
- · Moisture Sensitivity Level 1
- · Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix Designates RoHS Compliant. See Ordering Information)

# **Maximum Ratings**

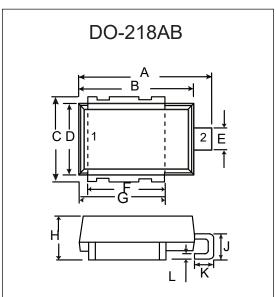
- Operating Junction Temperature Range: -55°C to +175°C
- Storage Temperature Range: -55°C to +175°C

Peak Pulse Power Surge Current with a 10/1000µs Waveform	I <sub>PPM</sub>	See the Table	Note 2
Peak Pulse Power Dissipation with a 10/1000µs Waveform	P <sub>PPM</sub>	3600W	Note 2
Peak Pulse Power Dissipation with a 10/10000µs Waveform	P <sub>PPM</sub>	2800W	Note 2
Power Dissipation On Infinite Heatsink	P <sub>D</sub>	5.0W	T <sub>L</sub> =25°C
Peak forward surge current	I <sub>FSM</sub>	500A	Note 3

Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7a.

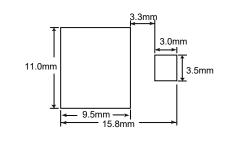
- 2. on-repetitive current pulse, per Fig.3 and derated above  $T_A$ =25°C per Fig.2
- 3. Peak forward surge current 8.3 ms single half sine

# 3600 Watt TVS 10 to 43 Volts



DIMENSIONS					
DIM	INCHES		MM		NOTE
DIIVI	MIN	MAX	MIN	MAX	NOIL
Α	0.590	0.630	15.00	16.00	
В	0.524	0.539	13.30	13.70	
С	0.374	0.413	9.50	10.50	
D	0.323	0.339	8.20	8.60	
Е	0.091	0.114	2.30	2.90	
F	0.343	0.366	8.70	9.30	
G	0.382	0.406	9.70	10.30	
Н	0.189	0.205	4.80	5.20	
J	0.098	0.138	2.50	3.50	
K	0.067	0.106	1.70	2.70	
L	0.020	0.028	0.50	0.70	

#### SUGGESTED SOLDER PAD LAYOUT





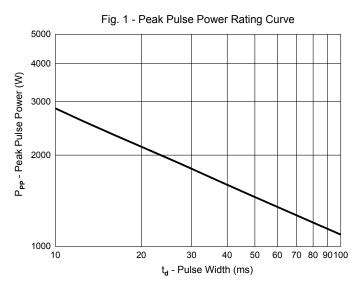
# Electrical Characteristics @ 25°C Unless Otherwise Specified

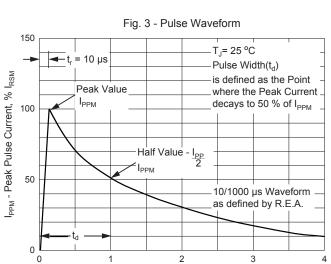
Part Number	Breakd	Breakdown Voltage V <sub>BR</sub> @I <sub>T</sub>		Maximum Reverse Leakage I <sub>R</sub>	Maximum IR @VRWM T <sub>J</sub> =175	Working Peak Reverse Voltage V <sub>RWM</sub>	Maximum Reverse Surge Current IPP	Maximum Clamping Voltage V <sub>C</sub> @I <sub>PP</sub>
	IT(mA)	@V <sub>RWM</sub> (μA)	(μΑ)	(V)	(A) <sup>(1)</sup>	(V)		
SM5S10A	11.1	12.3	5	15	250	10	212.0	17.0
SM5S11A	12.2	13.5	5	10	150	11	198.0	18.2
SM5S12A	13.3	14.7	5	10	150	12	181.0	19.9
SM5S13A	14.4	15.9	5	10	150	13	167.0	21.5
SM5S14A	15.60	17.20	5	10	150	14	155.0	23.2
SM5S15A	16.70	18.50	5	10	150	15	148.0	24.4
SM5S16A	17.80	19.70	5	10	150	16	138.0	26.0
SM5S17A	18.90	20.90	5	10	150	17	130.0	27.6
SM5S18A	20.00	22.10	5	10	150	18	123.0	29.2
SM5S20A	22.20	24.50	5	10	150	20	111.0	32.4
SM5S22A	24.40	26.90	5	10	150	22	101.0	35.5
SM5S24A	26.70	29.50	5	10	150	24	93.0	38.9
SM5S26A	28.90	31.90	5	10	150	26	86.0	42.1
SM5S28A	31.10	34.40	5	10	150	28	79.0	45.4
SM5S30A	33.30	36.80	5	10	150	30	74.0	48.4
SM5S33A	36.70	40.60	5	10	150	33	68.0	53.3
SM5S36A	40.00	44.20	5	10	150	36	62.0	58.1
SM5S40A	44.40	49.10	5	10	150	40	56.0	64.5
SM5S43A	47.80	52.80	5	10	150	43	52.0	69.4

NOTE 1 : Surge current waveform is defined at 10/1000uS waveform

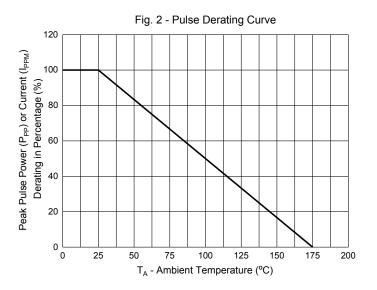


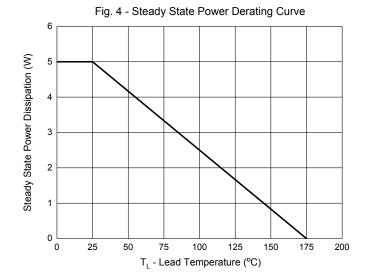
# **Curve Characteristics**





t - Time (ms)







## **Ordering Information**

Device	Packing
Part Number-TP	Tape&Reel:750pcs/Reel

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