

**SURFACE MOUNT
UNIDIRECTIONAL AND BIDIRECTIONAL
TRANSIENT VOLTAGE SUPPRESSORS**

STAND-OFF VOLTAGE - 5.0 to 75 Volts



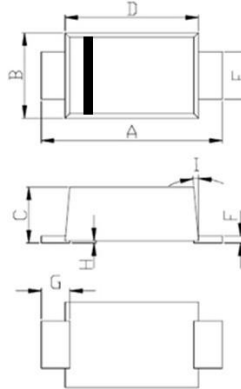
FEATURES

- For surface mounted applications
- Reliable low cost construction utilizing molded plastic technique
- Plastic material has UL flammability classification 94V-O
- Typical IR less than 1uA above 10V
- Fast response time: typically less than 1.0ns for Uni-direction, less than 5.0ns for Bi-direction, form Volts to BV min
- RoHS compliant
- IEC6100-4-2, >30KV(air); >30KV(Contact).(Note.4)
- AEC-Q101 qualified
- PPAP capable
- Automotive grade

MECHANICAL DATA

- Case : Molded plastic
- Polarity : by cathode band denotes uni-directional device none cathode band denotes bi-directional device
- Weight : 0.002 ounces, 0.0165 gram

DO-219



DO-219			
DIM.	MIN.	TYP	MAX.
A	3.50	3.80	3.90
B	1.70	1.90	2.00
C	0.81	1.18	1.20
D	2.70	2.80	2.90
E	0.80	1.00	1.35
F	0.05	0.15	0.30
G	0.35	0.60	0.85
H	0.03	0.07	0.10
I	0°	5°	8°

All dimension in millimeter.



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%

ABSOLUTE RATINGS

PARAMETER	SYMBOL	VALUE	UNIT
Peak Power Dissipation at TA = 25 °C , TP = 1ms (Note 1)	P _{PP}	400	W
Peak Forward Surge Current 8.3ms single half sine-wave @ TJ = 25 °C (Note 2)	I _{FSM}	40	A
Steady State Power Dissipation at TL =120 °C	P _{M(AV)}	1.0	W
Maximum Instantaneous forward voltage at 16A for unidirectional devices only (Note 3)	V _F	3	V
Operating junction temperature range	T _J	-55 to +175	°C
Storage temperature range	T _{STG}	-55 to +175	°C

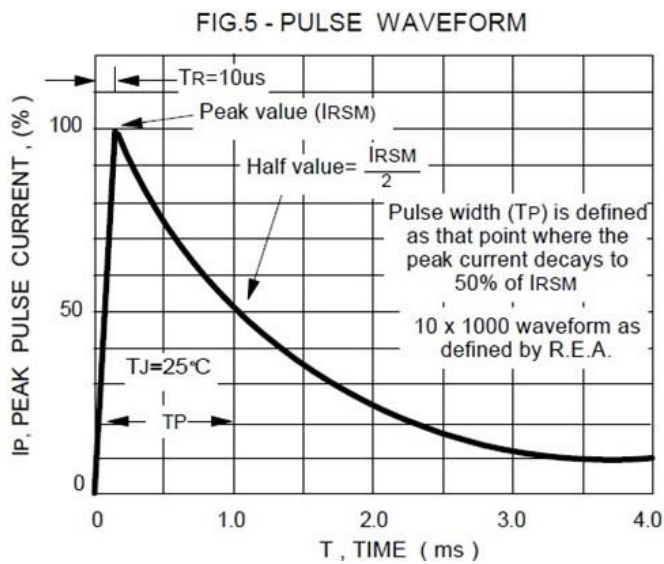
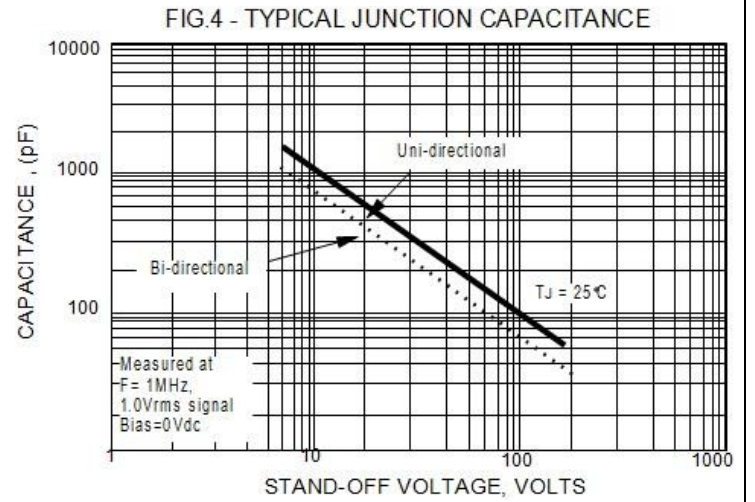
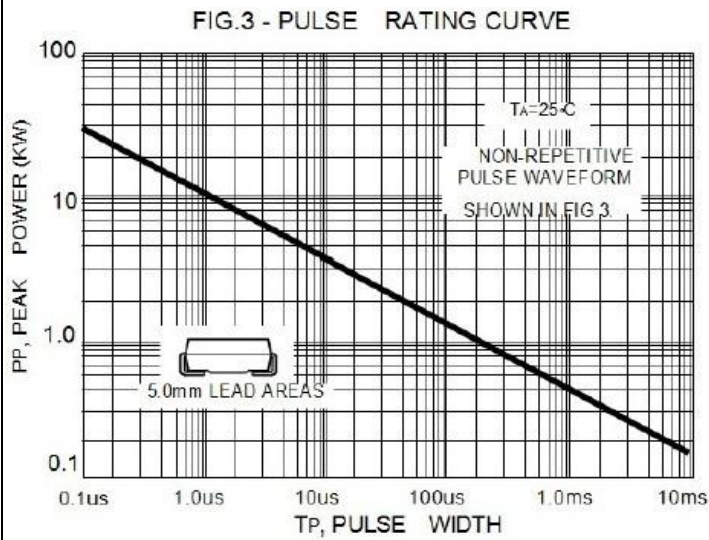
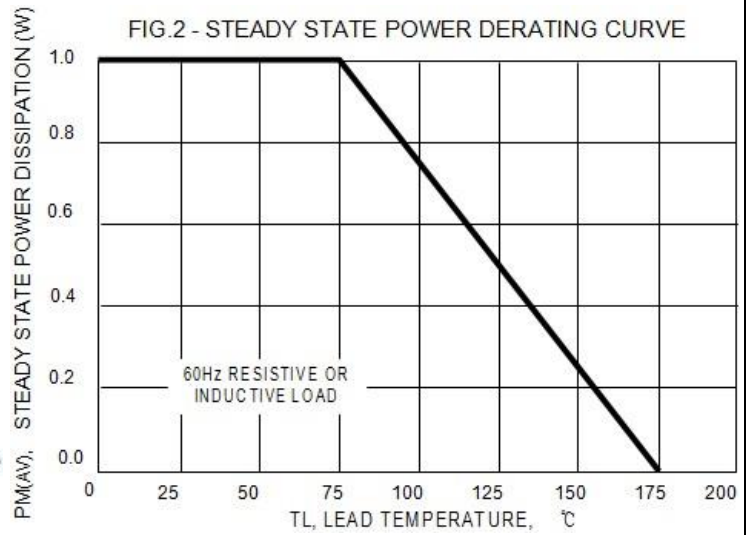
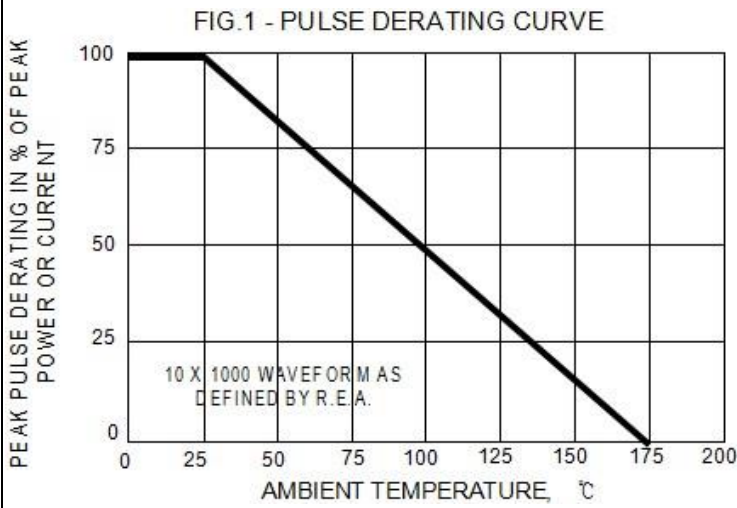
REV. 0, Nov-2016, KSIA08

NOTES :

1. Non-repetitive current pulse, per fig. 3 and derated above TA= 25 °C per fig.1.
2. Only for unidirectional units.
3. V_F max=3V at I_F=16 A 300us square wave pulse.
4. ALT4ME5.0 thru ALT4ME24 devices that comply IEC 61000-4-2 levels.

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RATING AND CHARACTERISTIC CURVES ALT4ME SERIES



Device Uni- Directional	Device Marking Code	Reverse Standoff Voltage	Breakdown Voltage VBR Volts			Max. Clamping Voltage @Ipp	Max. Peak Pulse Current	Max. Reverse Leakee @ VR
	(UNI)	VR (V)	Min.	Max.	@It (mA)	VC (V)	IPP (A)	IR (uA)
ALT4ME5.0A	AHE	5.0	6.40	7.07	10	9.2	43.5	150
ALT4ME6.0A	AHG	6.0	6.67	7.37	10	10.3	38.8	150
ALT4ME6.5A	AHK	6.5	7.22	7.98	10	11.2	35.7	150
ALT4ME7.0A	AHM	7.0	7.78	8.60	10	12.0	33.3	150
ALT4ME7.5A	AHP	7.5	8.33	9.21	1	12.9	31.0	100
ALT4ME8.0A	AHR	8.0	8.89	9.83	1	13.6	29.4	50
ALT4ME8.5A	AHT	8.5	9.44	10.43	1	14.4	27.7	10
ALT4ME9.0A	AHV	9.0	10.0	11.1	1	15.4	26.0	5
ALT4ME10A	AHX	10	11.1	12.3	1	17.0	23.5	5
ALT4ME11A	AHZ	11	12.2	13.5	1	18.2	22.0	0.5
ALT4ME12A	AIE	12	13.3	14.7	1	19.9	20.1	0.5
ALT4ME13A	AIG	13	14.4	15.9	1	21.5	18.6	0.5
ALT4ME14A	AIK	14	15.6	17.2	1	23.2	17.2	0.5
ALT4ME15A	AIM	15	16.7	18.5	1	24.4	16.4	0.5
ALT4ME16A	AIP	16	17.8	19.7	1	26.0	15.3	0.5
ALT4ME17A	AIR	17	18.9	20.9	1	27.6	14.5	0.5
ALT4ME18A	AIT	18	20.0	22.1	1	29.2	13.7	0.5
ALT4ME20A	AIV	20	22.2	24.5	1	32.4	12.3	0.5
ALT4ME22A	AIX	22	24.4	27.0	1	35.5	11.2	0.5
ALT4ME24A	AIZ	24	26.7	29.5	1	38.9	10.3	0.5
ALT4ME26A	AJE	26	28.9	31.9	1	42.1	9.5	0.5
ALT4ME28A	AJG	28	31.1	34.4	1	45.4	8.8	0.5
ALT4ME30A	AJK	30	33.3	36.8	1	48.4	8.3	0.5
ALT4ME33A	AJM	33	36.7	40.6	1	53.3	7.5	0.5
ALT4ME36A	AJP	36	40.0	44.2	1	58.1	6.9	0.5
ALT4ME40A	AJR	40	44.4	49.1	1	64.5	6.2	0.5
ALT4ME43A	AJT	43	47.8	52.8	1	69.4	5.7	0.5
ALT4ME45A	AJV	45	50.0	55.3	1	72.7	5.5	0.5
ALT4ME48A	AJX	48	53.3	58.9	1	77.4	5.2	0.5
ALT4ME51A	AJZ	51	56.7	62.7	1	82.4	4.9	0.5
ALT4ME54A	ARE	54	60.0	66.3	1	87.1	4.6	0.5
ALT4ME58A	ARG	58	64.4	71.2	1	93.6	4.3	0.5
ALT4ME60A	ARK	60	66.7	73.7	1	96.8	4.1	0.5
ALT4ME64A	ARM	64	71.1	78.6	1	103	3.9	0.5
ALT4ME70A	ARP	70	77.8	86.0	1	113	3.5	0.5
ALT4ME75A	ARR	75	83.3	92.1	1	121	3.3	0.5

NOTE :

Suffix 'A' denotes 5% tolerance device.

1. Add suffix 'C' or 'CA' after part number to specify Bi-directional devices.
2. Only Uni-directional units on ALT4ME series

Legal Disclaimer Notice
ALT4ME SERIES

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