

**SURFACE MOUNT UNIDIRECTIONAL
TRANSIENT VOLTAGE SUPPRESSORS**

**STAND-OFF VOLTAGE - 5.0 to 51 Volts
POWER DISSIPATION - 200 Watts**

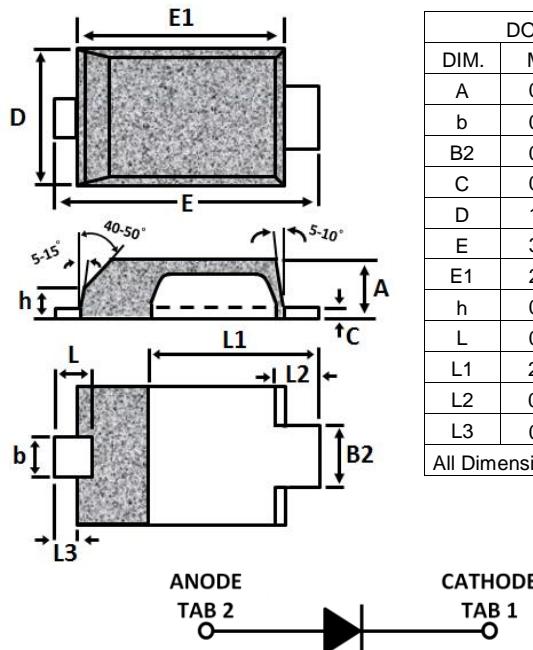
FEATURES

- For surface mounted applications
- Reliable low cost construction unitizing molded plastic technique
- Typical IR less than 1uA above 10V
- Fast response time: typically less than 1.0ns
- IEC61000-4-2, Level 4(ESD), >30KV (air); 30KV (contact)
- RoHS compliant

MECHANICAL DATA

- Case Material: "Green" molding compound, UL flammability classification 94V-0 (No Br. Sb. Cl.)
- Terminals: Lead free plating (Matte tin finish)
- Component in accordance to RoHS 2002/95/EC
- Polarity: Cathode designated by TAB1
- Weight : 10 grams

MITE-FLAT



DO-222AA		
DIM.	MIN.	MAX
A	0.80	0.95
b	0.40	0.65
B2	0.70	1.00
C	0.10	0.25
D	1.75	2.05
E	3.60	3.90
E1	2.80	3.10
h	0.35	0.50
L	0.50	0.80
L1	2.10	2.60
L2	0.45	0.75
L3	0.20	0.50

All Dimensions in millimeter

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

ABSOLUTE RATINGS

PARAMETER	SYMBOL	VALUE	UNIT
Peak power dissipation @ $T_J = 25^\circ\text{C}$, $t_p = 1\text{ms}$ (Note1)	P_{PK}	Minimum 200	W
Non repetitive peak forward surge current 8.3ms single half sine-wave @ $T_J = 25^\circ\text{C}$	I_{FSM}	25	A
Operating temperature range	T_J	-55 to +175	°C
Storage temperature range	T_{STG}	-55 to +175	°C

REV.15,NOV-2020, KSIP01

Notes:

1. Non-repetitive current pulse, per fig. 3 and derated above $T_J = 25^\circ\text{C}$ per fig.2.

Please be aware that an **Important Notice and Disclaimer** concerning availability, disclaimers, and use in Critical applications of LSC products thereto appears at the end of this Data Sheet.

RATING AND CHARACTERISTIC CURVES LT2MF SERIES

LITEON

FIG.1- Peak Pulse Power Rating Curve

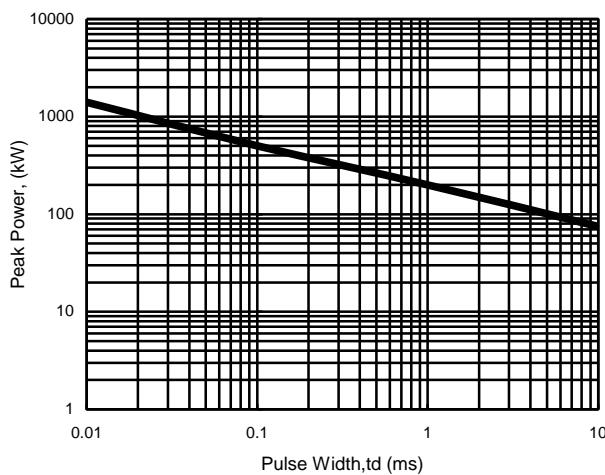


FIG.2- Pulse Derating Curve

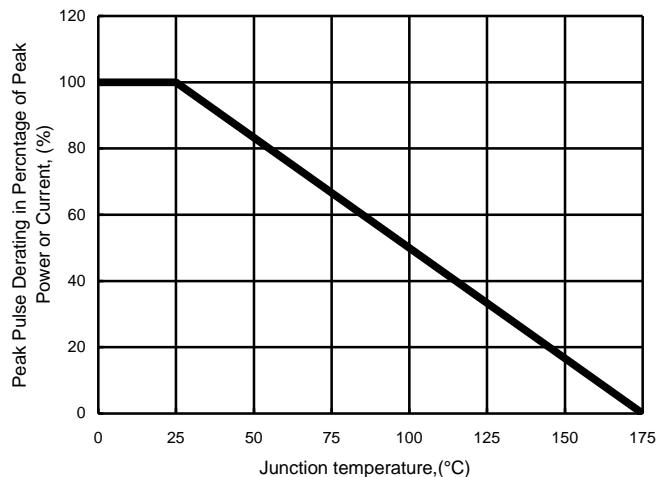


FIG.3- Pulse Waveform

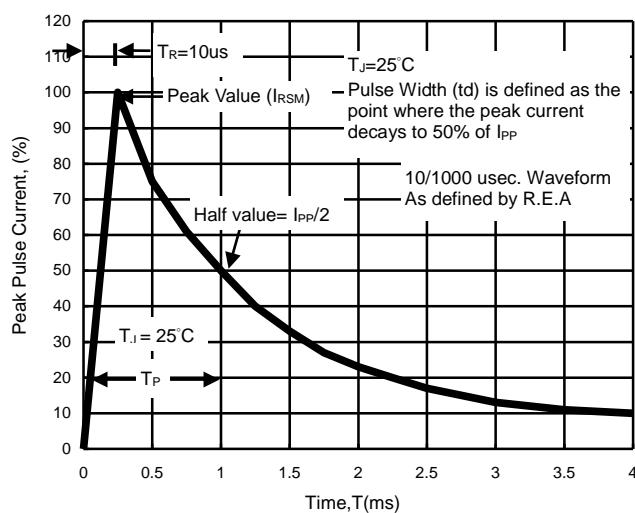
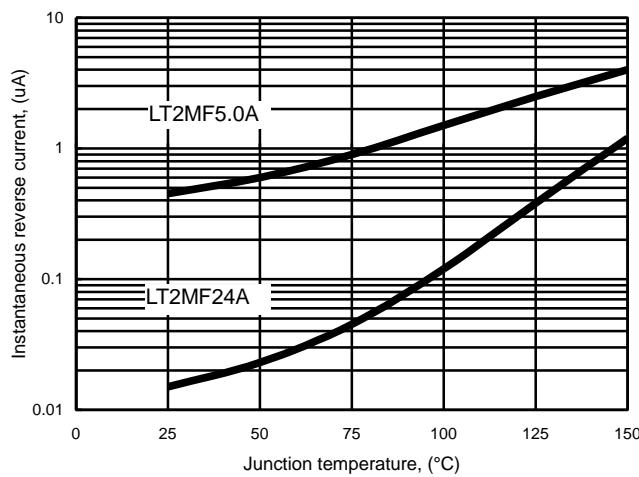


FIG.4- Typical reverse characteristics



LT2MF SERIES


Device uni-directional	Device marking code	Working peak reverse voltage	Breakdown voltage V_{BR} volts			Maximum reverse leakage at V_{RWM}	Maximum reverse surge current	Maximum reverse voltage at I_{RSM} (clamping voltage)
		$V_{RWM}(V)$	Min.	Max	@IT(mA)	$I_R(\mu A)$	$I_{RSM}(A)$	$V_{RSM}(V)$
LT2MF5.0A	MFB	5.0	6.40	7.07	10	50	21.7	9.2
LT2MF6.0A	MFC	6.0	6.67	7.37	10	50	19.4	10.3
LT2MF8.5A	MFD	8.5	9.44	10.43	1	10	13.9	14.4
LT2MF10A	MFE	10	11.1	12.3	1	5.0	11.8	17.0
LT2MF12A	MFF	12	13.3	14.7	1	1.0	10.1	19.9
LT2MF13A	MFG	13	14.4	15.9	1	1.0	9.3	21.5
LT2MF15A	MFP	15	16.7	18.5	1	1.0	8.2	24.4
LT2MF16A	MFH	16	17.1	18.9	1	1.0	7.7	26.0
LT2MF18A	MFI	18	20.0	22.1	1	1.0	6.9	29.2
LT2MF20A	MFJ	20	22.2	24.5	1	1.0	6.2	32.4
LT2MF22A	MFQ	22	24.4	27.0	1	1.0	5.6	35.5
LT2MF24A	MFK	24	25.7	28.4	1	1.0	5.1	38.9
LT2MF26A	MFL	26	28.9	31.9	1	1.0	4.8	42.1
LT2MF28A	MFM	28	31.1	34.4	1	1.0	4.4	45.4
LT2MF30A	MFN	30	33.3	36.8	1	1.0	4.1	48.4
LT2MF36A	MFO	36	40.0	44.2	1	1.0	3.4	58.1
LT2MF40A	MFR	40	44.4	49.1	1	1.0	3.1	64.5
LT2MF43A	MFS	43	47.8	52.8	1	1.0	2.88	69.4
LT2MF45A	MFT	45	50.0	55.3	1	1.0	2.75	72.7
LT2MF48A	MFU	48	53.3	58.9	1	1.0	2.58	77.4
LT2MF51A	MFV	51	56.7	62.7	1	1.0	2.43	82.4

LEGAL DISCLAIMER NOTICE

IMPORTANT NOTICE AND DISCLAIMER

LSC reserves the right to make changes to this document and its products and specifications at any time without notice. Customers should obtain and confirm the latest product information and specifications before final design purchase or use.

ALL INFORMATION ARE PROVIDED AS-IS, EVEN IT HAS QUALIFIED BY THE AEC-Q101 WHICH SATISFY INDUSTRIAL APPLICATION REQUIREMENT, EXCEPT AS EXPRESSLY STATED IN THIS DATA SHEET IS APPLIED FOR AUTOMOTIVE GRADE, LSC MAKE NO WARRANTIES, REPRESENTATION OR GUARANTEE, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING, WITHOUT LIMITATION, REGARDING ANY MERCHANTABILITY, SATISFACTORY QUALITY, OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE LSC TECHNOLOGY.

LSC DOES NOT ASSUME ANY LIABILITY OR COMPENSATION FOR ANY APPLICATION ASSISTANCE OR CUSTOMER PRODUCT DESIGN, AND MAKE NO WARRANTY OR ACCEPT ANY LIABILITY WITH PRODUCTS, WHICH ARE PURCHASED OR USED FOR ANY UNINTENDED OR UNAUTHORIZED APPLICATION.

No license is granted by implication or otherwise under any intellectual property rights of LSC.

LSC products are not authorized for use as critical components in life support devices or systems without express written approval of LSC.