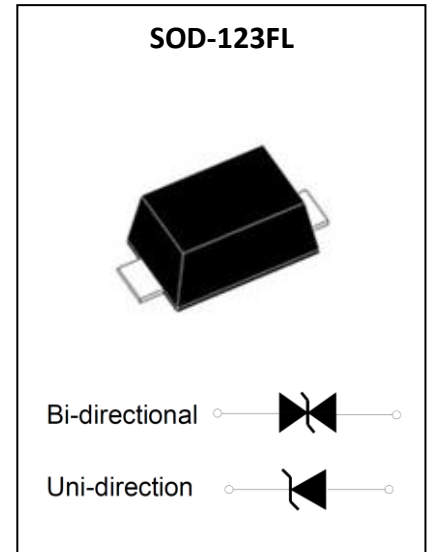


Feature

- P_{PP} 600W(10/1000us)
- V_{RWM} 7.0V~28V
- Glass passivated or planar junction
- Fast response time: typically less than 1.0ps from 0V to V_{BR} min.
- High temperature soldering: 260°C/10s at terminals.
- Plastic package has Underwriters Laboratory Flammability 94V-0.

Applications

- I/O interface
- AC/DC Power supply
- Automotive and tele-communication
- Computers and consumer electronics
- Low frequency signal transmission line



Absolute Maximum Ratings ($T_a=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Value	Unit
Peak power dissipation with a 10/1000 us waveform (see note1 & note2)	P_{PP}	600	W
Peak pulse current with a 10/1000 us waveform	I_{PP}	See Next Table	A
Thermal resistance between junction and lead	$R_{\theta JL}$	26	°C/W
Thermal resistance between junction and ambient	$R_{\theta JA}$	300	°C/W
Junction Temperature	T_J	-55 ~ +150	°C
Storage Temperature	T_{STG}	-55 ~ +150	°C

Note:1. Non-repetitive current pulse, per Fig.3 and above $T_A=25^\circ\text{C}$ per Fig. 2.

Note:2. Mounted on copper pad area of 0.31x0.31" (8.0 x 8.0mm) to each terminal.

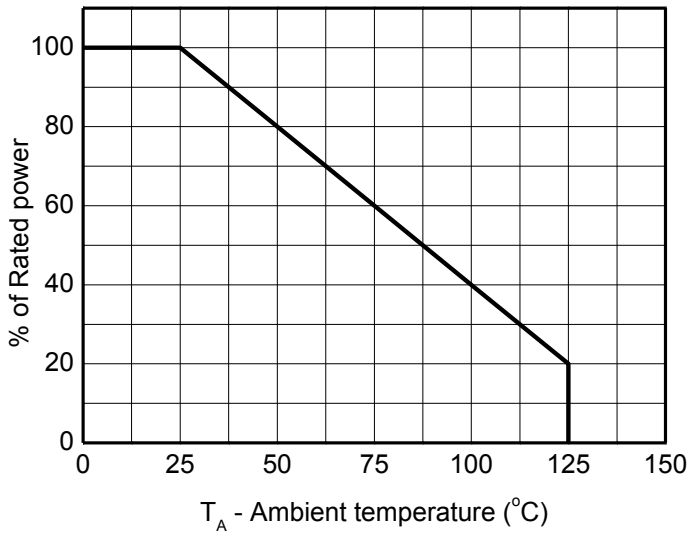
Note:3. see figure below.

Electrical Characteristics (T_a=25°C unless otherwise specified)

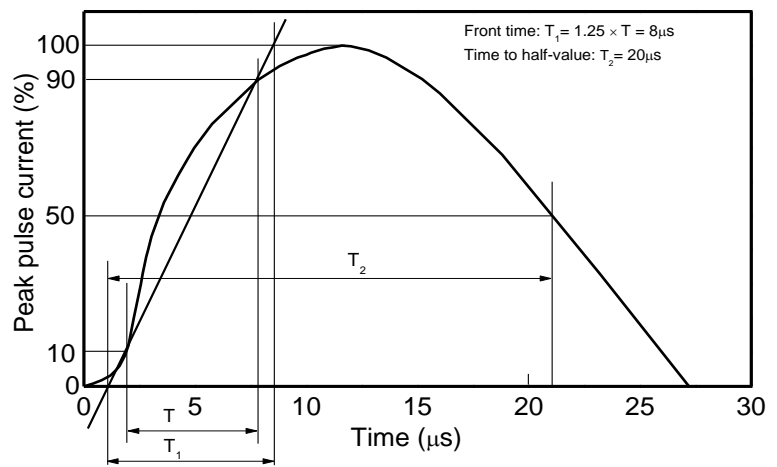
Part Number	Device Marking Code	Reverse Stand-off Voltage V _{RWM} (V)	Breakdown Voltage V _{BR} (Volts)@I _T		Test Current I _T (mA)	Maximum Clamping Voltage V _C @I _{PP} (Volts)	Maximum Peak Pulse Current I _{PP} (A)	Maximum Reverse Leakage I _R @V _{RWM} (μA)	Junction Capacitance C _J (pF)
			MIN	MAX					Typ
M4SMF7.0A	EHK	7.0	7.7	8.6	10	16.0	220	50	1650
M4SMF7.0CA	ETM	7.0	7.7	8.6	10	16.0	220	50	870
M4SMF12A	EIE	12	13.3	14.7	1	24.0	190	1	1020
M4SMF12CA	EUE	12	13.3	14.7	1	24.0	190	1	490
M4SMF15A	EIM	15	16.7	18.5	1	26.0	180	1	1000
M4SMF15CA	EUM	15	16.7	18.5	1	26.0	180	1	400
M4SMF18A	EIT	18	20	22.1	1	30.0	160	1	650
M4SMF18CA	EUT	18	20	22.1	1	30.0	160	1	320
M4SMF20A	EIV	20	22.2	24.5	1	35.0	150	1	310
M4SMF20CA	EUV	20	22.2	24.5	1	35.0	150	1	310
M4SMF24A	EIZ	24	26.7	29.5	1	40.0	190	1	300
M4SMF24CA	EUZ	24	26.7	29.5	1	40.0	170	1	300
M4SMF26A	EJE	26	28.9	31.9	1	44.0	150	1	290
M4SMF26CA	EVE	26	28.9	31.9	1	44.0	130	1	290
M4SMF28A	EJG	28	31.1	34.4	1	48.0	120	1	280
M4SMF28CA	EVG	28	31.1	34.4	1	48.0	120	1	280

Typical Characteristics

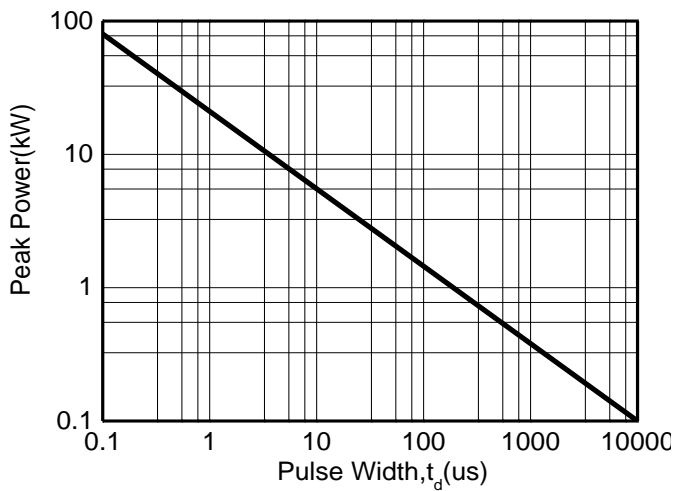
Pluse Derating Curve



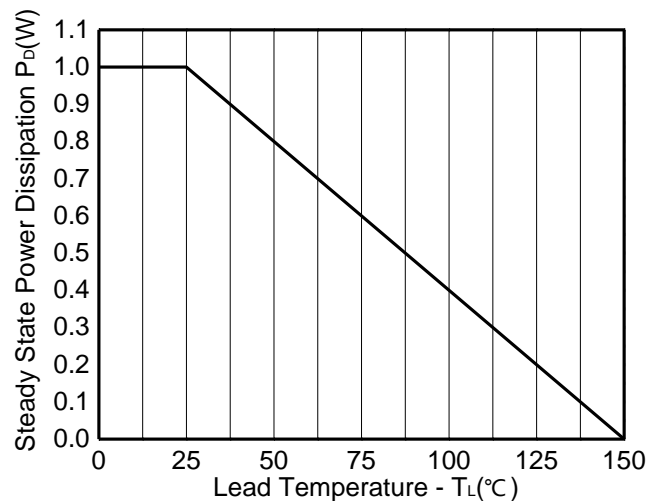
8/20us Pulse Waveform



Peak Pulse Power Rating Curve



Steady State Power Dissipation Derating Curve



SOD-123FL Package Outline Dimensions

