

Features

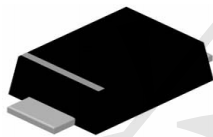
- For surface mounted applications
- Excellent clamping capability
- IEC-61000-4-2 ESD 30KV(Air),30KV(Contact)

Applications

- Package: SMF/SOD-123FL
- Moisture Sensitivity: Meet MSL 1

Dimensions and Pin Configuration

SOD123FL



Maximum Ratings & Thermal Characteristics

(Ratings at 25°C ambient temperature unless otherwise specified.)

Parameter	Symbol	Value	Units
Peak Pulse Power Dissipation on 20 us Waveform	P_{PPM}	See next table	W
Peak Pulse Current of on 8/20us Waveform	I_{PPM}	See next table	A
Operating Junction Temperature Range	T_J	-55 to 125	°C
Storage Temperature Range	T_{STG}	-55 to 150	°C

Electrical Characteristics

device	I_R at V_{RWM}		V_{BR} at I_T ⁽¹⁾		10/1000 μs		8/20 μs		0V, 1MHz		αT
	Max		Min		$V_{CL}^{(2)}$	$I_{PP}^{(3)}$	$V_{CL}^{(2)}$	$I_{PP}^{(3)}$	P_{PPM}	C_o	
	Typ		Typ		Max		Max	Max		Typ	Typ
	V	μA	V	mA	V	A	V	A	W	pF	$10^{-4}/^{\circ}C$
TPTVS05B1F	5	50	5.5	10	10.5	45	16	250	4000	1200	4.5
TPTVS07B1F	7	20	7.5	10	12.0	28	20	180	3600	650	5.3
TPTVS12B1F	12	1	12.5	1	19.0	18	24	250	6000	500	6.8
TPTVS15B1F	15	1	15.5	1	19.0	17	24	230	5500	300	7.2
TPTVS18B1F	18	1	19.0	1	25.0	12	32	180	5700	380	7.4
TPTVS24B1F	24	1	25.5	1	25.0	10	32	180	5700	380	7.8
TPTVS28B1F	28	1	28.0	1	25.0	9	35	180	6300	280	7.9

Typical Performance Characteristics ($T_A=25^{\circ}\text{C}$ unless otherwise Specified)

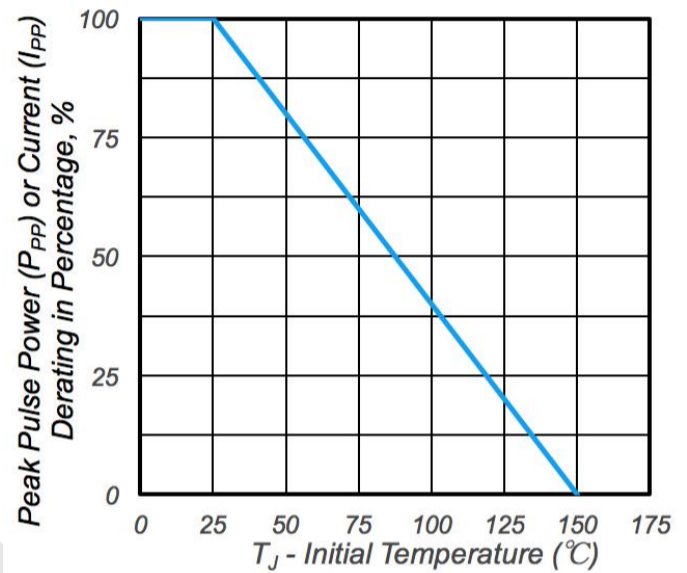
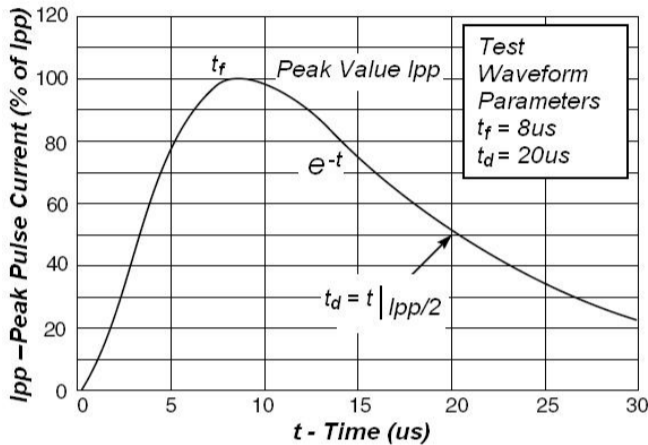
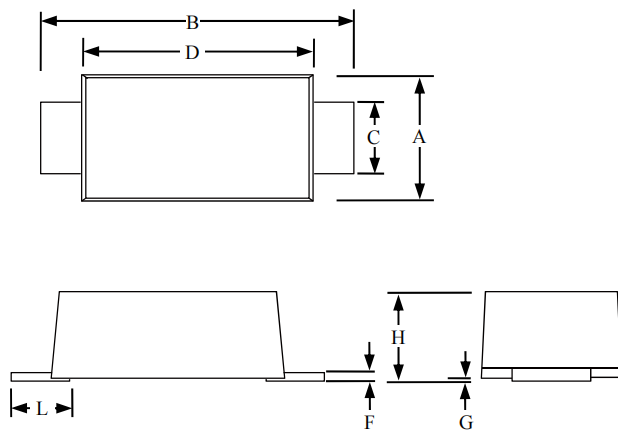


Fig.1 Pulse Waveform

Fig.2 Pulse Derating Curve

Package Outline Dimensions: SOD123FL



SOD-123FL						
Dimension	Inches			Millimeters		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.059		0.079	1.5		2
B	0.134		0.154	3.4		3.9
C	0.028		0.047	0.7		1.2
D	0.098		0.114	2.5		2.9
F	0.002		0.01	0.05		0.26
G	-		0.004	-		0.1
H	0.037		0.053	0.95		1.35
L	0.014		0.035	0.35		0.9