

Features

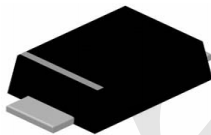
- For surface mounted applications
- Excellent clamping capability
- 5000 W peak pulse power capability with a 8/20 μ s Waveform.
- IEC-61000-4-2 ESD 30KV(Air),30KV(Contact)

Applications

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

Dimensions and Pin Configuration

SOD123FL



Marking:24CA

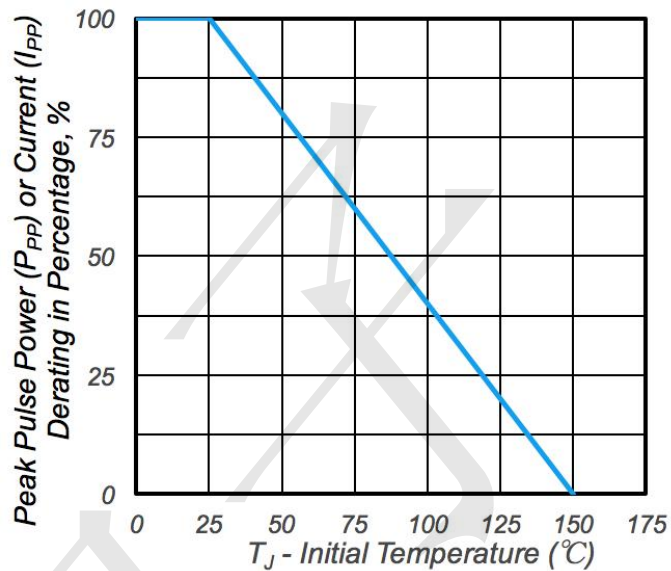
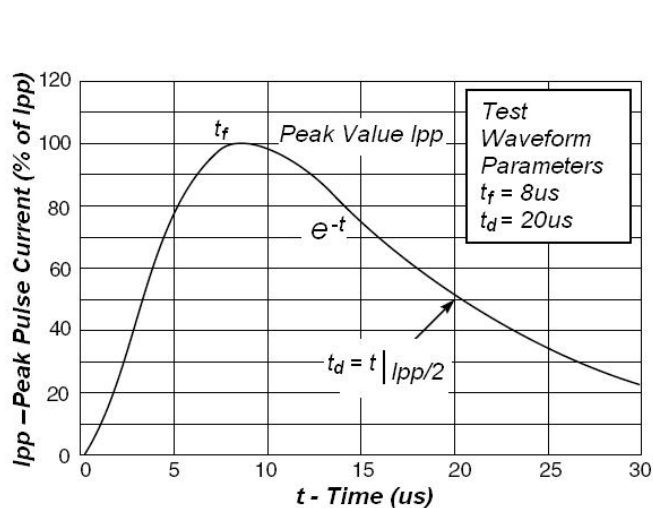
Absolute Maximum Ratings (Tamb=25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Pulse Power (tp=8/20 μ s waveform)	P _{pp}	5000	W
Peak Pulse Current (8/20 μ s)	I _{pp}	150	A
ESD per IEC 61000-4-2 (Air)	V _{ESD}	±30	kV
ESD per IEC 61000-4-2 (Contact)		±30	
Operating Temperature Range	T _J	-55 to +125	°C
Storage Temperature Range	T _{stg}	-55 to +150	°C

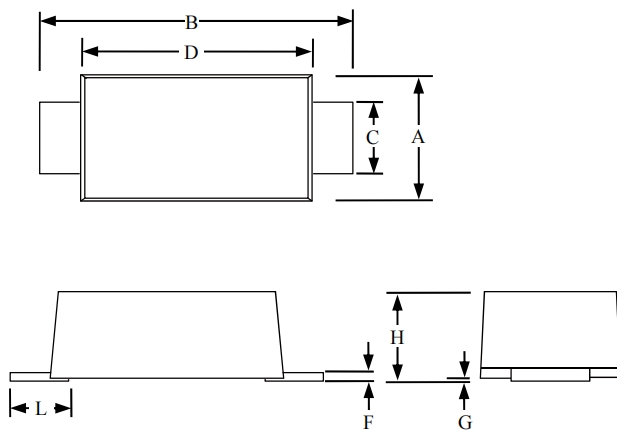
Electrical Characteristics (TA=25°C unless otherwise specified)

Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse Working Voltage	V _{RWM}			24	V	
Breakdown Voltage	V _{BR}	26.7			V	I _T = 1mA
Reverse Leakage Current	I _R			2	μA	V _{RWM} = 24V
Clamping Voltage	V _C			33	V	I _{PP} = 100A
Clamping Voltage	V _C			35	V	I _{PP} = 150A
Junction Capacitance	C _J			700	pF	V _R = 0V, f = 1MHz

Ratings and Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)



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