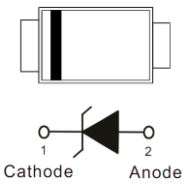
Leiditech

P4SMFJ3.3A

Features

- For surface mounted applications in order to optimize board space.
- Ultra thin profile package for space constrained utilization.
- Package suitable for automated handling
- Low inductance
- High temperature soldering : 260℃/10 seconds at terminals
- Lead free in compliance with EU RoHS 2011/65/EU directive.
- Green molding compound as per IEC61249 Std.(Halogen Free)

SOD-123FL Unit : inch(mm)



Mechanical Data

- Case: SOD-123FL, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Approx. Weight: 0.0006 ounces, 0.0173 grams
- Standrad package: 8mm tape (EIA-481)

Maximum Ratings (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Peak Pulse Power Dissipation(tp=10/1000μ s)(NOTE1,2)	P_{PP}	400	W
Peak Forward Surge Currert (8.3ms single half sine-wave)	I_{FSM}	40	A
Peak Pulse Current on tp=10/1000μ s waveform(NOTE1,Fig.2)	I_{PPM}	See table 1	A
ESD IEC61000-4-2(Air) ESD IEC61000-4-2(Contact)	V_{ESD}	±30 ±30	kV
Typical Thermal Resistance Junction to Ambient(NOTE3) Typical Thermal Resistance Junction to Lead(NOTE4)	$R_{\theta JA}$ $R_{\theta JL}$	200 70	°C/W
Operating Junction Temperature	T_J	-55 to +150	°C
Storage Temperature Range	T_{STG}	-65 to +150	°C

Notes：

1. Non-repetitive current pulse, per Fig.3 and derated above T_A=25℃ per Fig.2
2. Mounted on 5mm^2 copper pads to each terminal.
3. Mounted on a FR4 PCB, single-sided copper, mini pad.
4. Mounted on a FR4 PCB, single-sided copper, with 10cm*10cm copper pad.
5. A transient suppressor is selected according to the working peak reverse voltage(V_{RWM}), which should be equal to or greater than the DC or continuous peak operation voltage level.
6. TVS is a transient protection device, it is strongly recommended not to use as a Zener.

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Electrical Characteristics (T_A=25°C unless otherwise noted)

Part Number	V_{RWM}	V_{BR}			I_R@V_{RWM}	V_C@I_{PP}	
		Min.	Max.	I_T			
	V	V	V	mA	μ A	V	A
P4SMFJ3.3A	3.3	5.20	6.00	10	600	8.5	47

TYPICAL CHARACTERISTIC CURVES

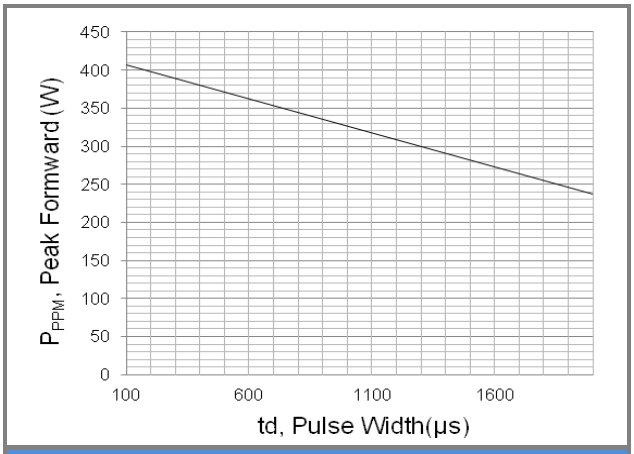


Fig.1 Peak Pulse Power Rating Curve

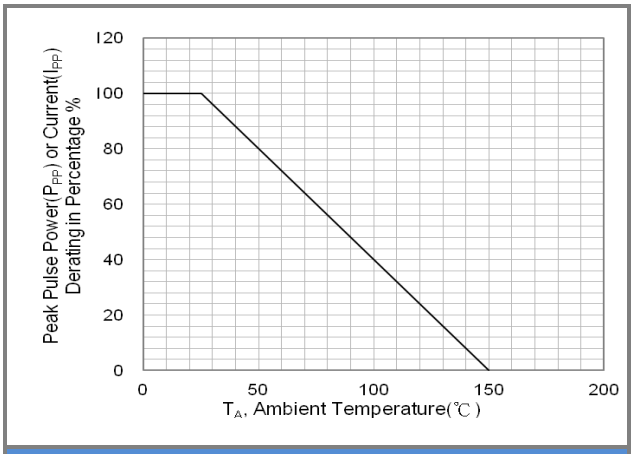


Fig.2 Derating Curve

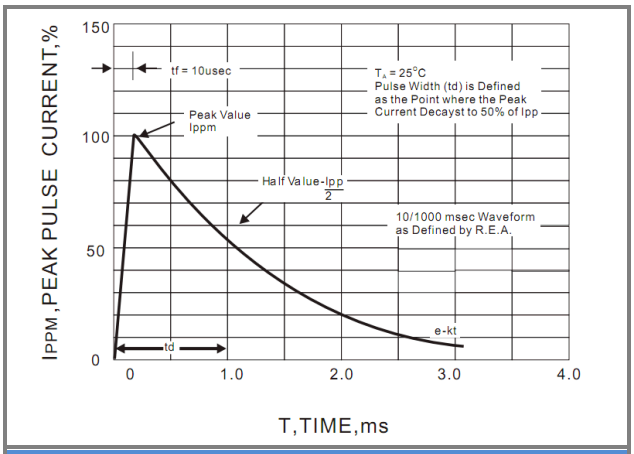


Fig.3 Pulse Waveform

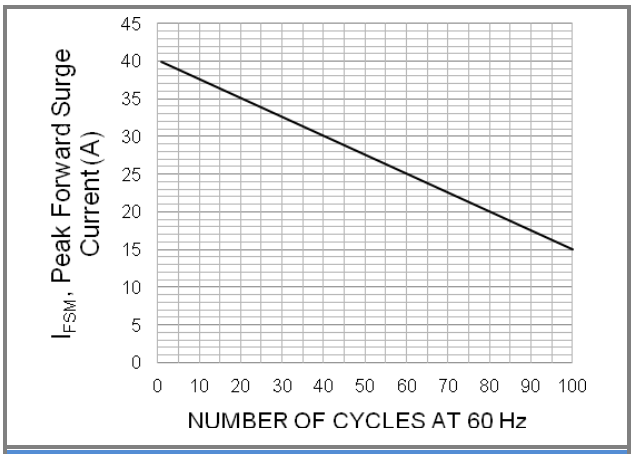
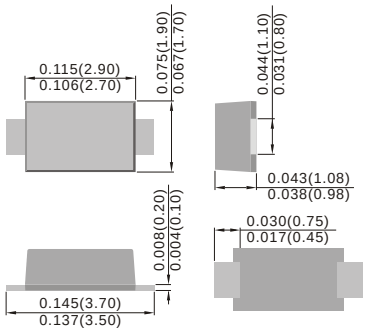


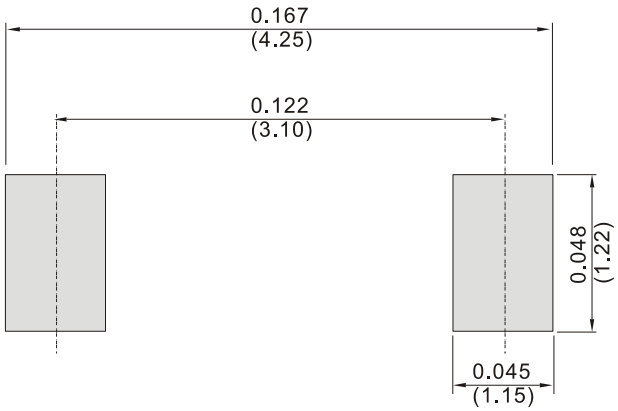
Fig.4 Maximum Non-repetitive Peak Forward Surge Current

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MOUNTING PAD LAYOUT

SOD-123FL Unit : inch(mm)





Shanghai Leiditech Electronic Co.,Ltd
Email: sale1@leiditech.com
Tel : +86- 021 50828806
Fax : +86- 021 50477059

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