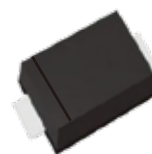


Features

Glass passivated chip
Built-in strain relief Low inductance
High peak reverse power dissipation
Low reverse leakage
For use in stabilizing and clipping with high power rating



SOD-123FL



Schematic Symbol

Mechanical Data

Case : Molded plastic body
Polarity : Polarity symbol marking on body
Mounting Position : Any

Approvals

RoHS Compliance with 2011/65/EU
HF Compliance with IEC61249-2-21:2003

Maximum Ratings (TA=25°C)

Parameter	Symbol	Value	Unit
DC Power dissipation at $T_L = 75^\circ\text{C}_{(1)}$	P_D	1.0	W
Maximum forward voltage at $I_F=200\text{mA}$	V_F	1.2	V
Junction temperature range	T_J, T_{STG}	-55 to +150	$^\circ\text{C}$
Storage temperature range	T_J, T_{STG}	-55 to +150	$^\circ\text{C}$

Note: (1) T_L =Lead temperature at 3/8" (9.5mm)from body

Electrical Characteristics

Part Number	Device Marking Code	Nominal Zener Voltage @ I_T			$I_{ZT}(\text{mA})$	Maximum Zener Impedance			Maximum Reverse Leakage Current		Maximum DC Zener Current
		$V_{Z\text{AVE}}(\text{V})$	$V_{Z\text{MIN}}(\text{V})$	$V_{Z\text{MAX}}(\text{V})$		$Z_{ZT\text{MAX}}(\Omega)$ @ I_{ZT}	$Z_{ZK\text{MAX}}(\Omega)$ @ I_{ZK}	$I_{ZK}(\text{mA})$	$I_R(\mu\text{A})@V_R$	$V_R(\text{V})$	
NZH4V7B,115-CN	32A	4.7	4.47	4.94	53.0	8.0	500.0	1.00	10.0	1.0	192.0

Characteristic Curves

Fig.1-Power Temperature Derating Curve

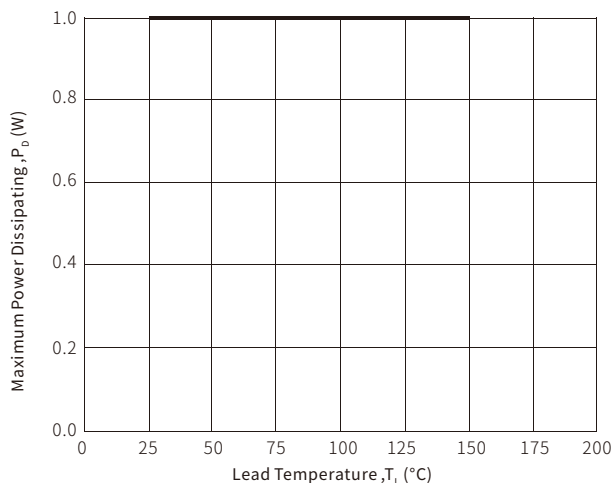


Fig.2-Temperature Coefficients v.s. Zener Voltage

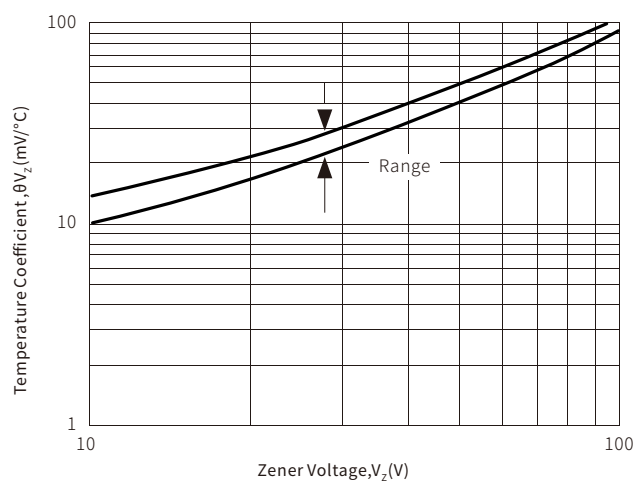


Fig.3-Typical Thermal Resistance v.s. Lead Length

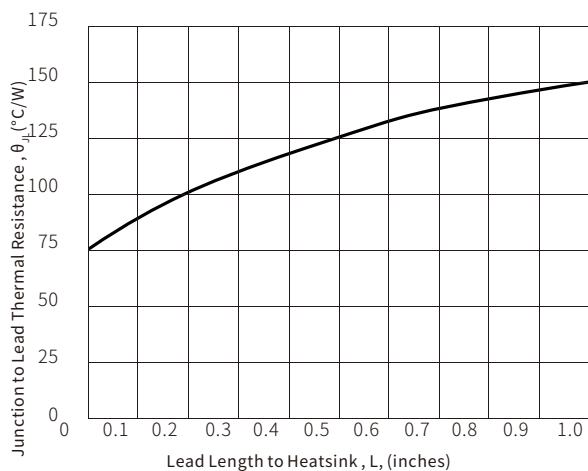
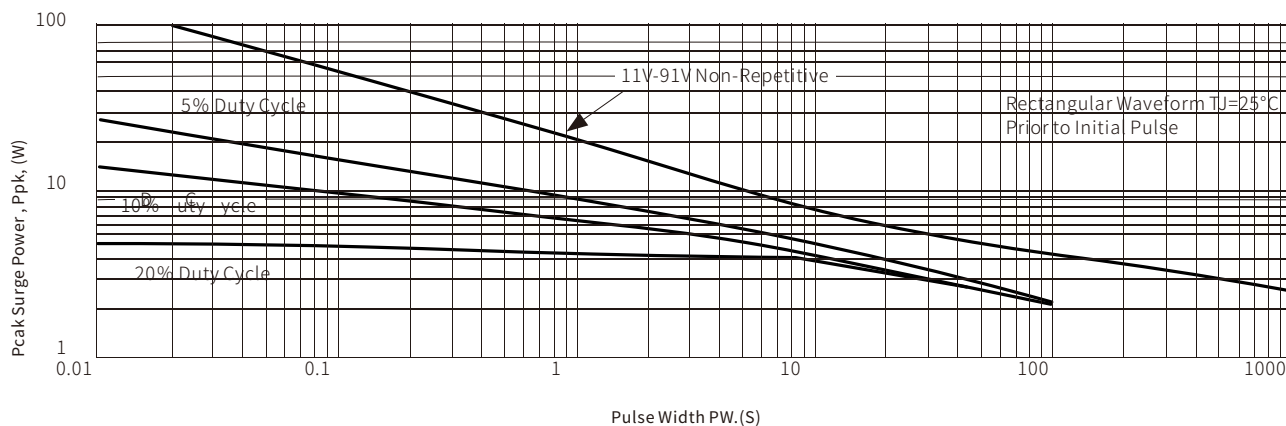
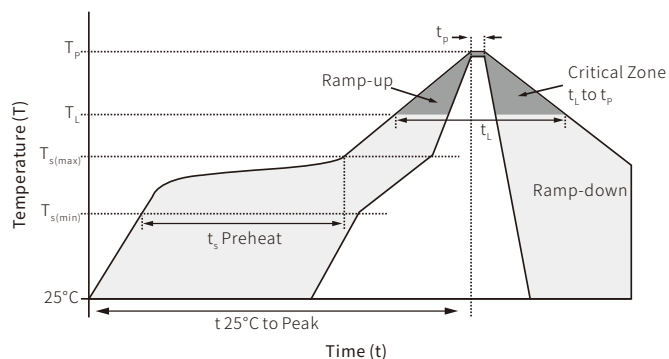


Fig.4-Maximum Surge Power

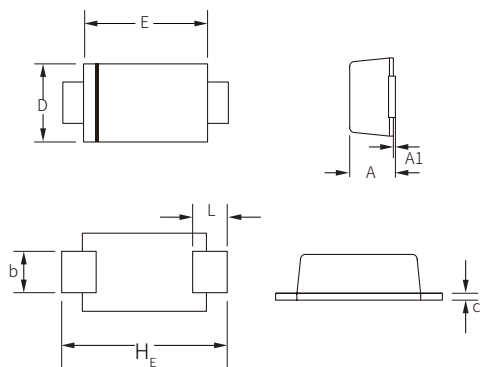


Soldering Parameters

Reflow Condition		Lead-free assembly
Pre Heat	Temperature Max ($T_{s(min)}$)	150°C
	Temperature Max ($T_{s(max)}$)	200°C
	Time (min to max) (t_s)	60 – 180 secs
Average ramp up rate (Liquidus Temp (T_L) to peak)		3°C/second max
$T_{s(max)}$ to T_L - Ramp-up Rate		3°C/second max
Reflow	Temperature (T_L) (Liquidus)	217°C
	Time (min to max) (t_L)	60 – 150 seconds
Peak Temperature (T_p)		260°C
Time within 5°C of actual peak Temperature (t_p)		20 – 40 seconds
Ramp-down Rate		6°C/second max
Time 25°C to peak Temperature (T_p)		8 minutes max.
Do not exceed		260°C

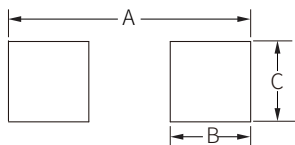


SOD-123FL Package Information



Ref.	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	0.95	1.45	0.037	0.057
A1	0.00	0.10	0.000	0.004
b	0.70	1.20	0.028	0.047
c	0.05	0.30	0.002	0.012
D	1.50	2.00	0.059	0.079
E	2.50	3.10	0.098	0.122
L	0.35	0.90	0.014	0.035
H _E	3.40	3.90	0.134	0.154

Recommended Pad Layout Dimensions



Ref.	Millimeters	Inches
A	4.20	0.165
B	1.50	0.059
C	1.20	0.047

Ordering Information

Part Number	Component Package	QTY/Reel	Reel Size
NZH4V7B,115-CN	SOD-123FL	3000PCS	7"

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