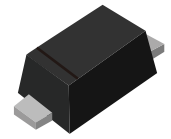


FEATURES

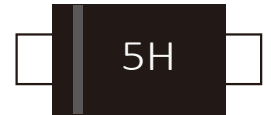
- | 150W Peak Pulse Power per Line (tp=8/20μs)
- | Protects One Power or I/O Port
- | Working voltages : 3.3 V
- | Low operating and clamping voltages
- | Solid-state silicon avalanche technology

APPLICATIONS

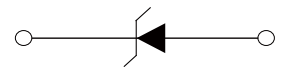
- | Notebooks, Desktops, Servers and Video
- | Graphics Cards Display Ports
- | USB Power & Data Line Protection
- | Monitors and Flat Panel Displays
- | I²C Bus Protection
- | Portable Instrumentation
- | Set Top Box



SOD-723



Marking



Schematic Symbol

IEC COMPATIBILITY

- | IEC61000-4-2 (ESD) ±15kV (air), ±8kV (contact)
- | IEC61000-4-4 (EFT) 40A (5/50ns)

APPROVALS

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

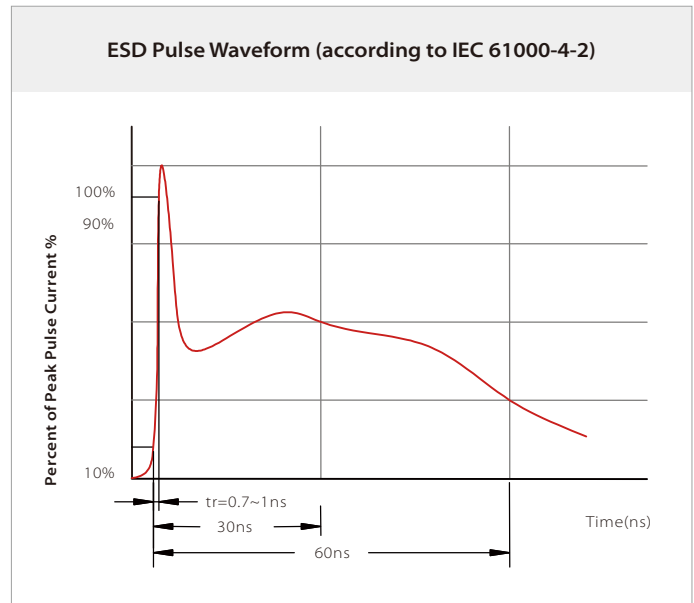
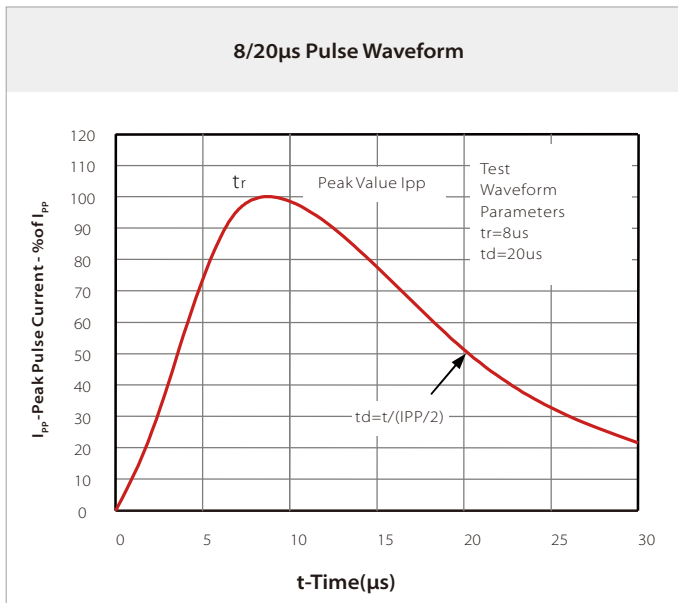
THERMAL CONSIDERATIONS

Symbol	Parameter	Value	Unit
P _{PP}	Peak Pulse Power (tp=8/20μs waveform)	150	Watts
T _J	Operating Temperature Range	-55 to +150	°C
T _{STG}	Storage Temperature Range	-55 to +150	°C

ELECTRICAL CHARACTERISTICS

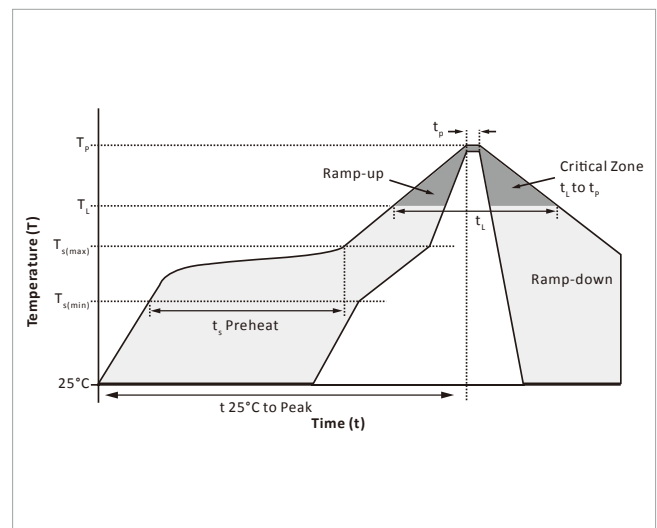
Symbol	Parameter	Condition	Min.	Typ.	Max.	Unit
V _{RWM}	Reverse Stand-off Voltage				3.3	V
V _{BR}	Reverse Breakdown Voltage	I _T =1mA	4			V
I _R	Reverse Leakage Current	V _{RWM} =3.3V			1	μA
V _C	Clamping Voltage (Tp=8/20us)	I _{pp} =1A, tp=8/20us			9.8	V
V _C	Clamping Voltage (Tp=8/20us)	I _{pp} =12A, tp=8/20us			13	V
I _{pp}	Peak Pulse Current (Tp=8/20us)	tp=8/20us			12	A
C _J	Off State Junction Capacitance	V _R =0V, f=1MHz			120	pF

CHARACTERISTIC CURVES

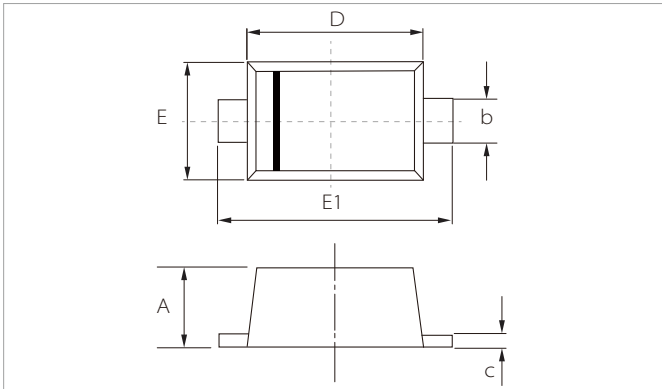


SOLDERING PARAMETERS

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

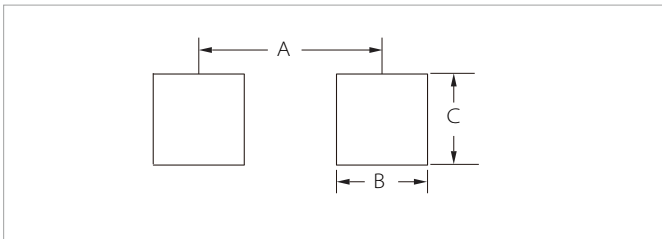


SOD-723 PACKAGE INFORMATION



Ref.	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	0.58	0.65	0.023	0.026
b	0.26	0.34	0.010	0.013
c	0.11	0.17	0.004	0.007
D	1.15	1.25	0.045	0.049
E	0.75	0.85	0.030	0.033
E1	1.55	1.65	0.061	0.065

RECOMMENDED PAD LAYOUT DIMENSIONS



Ref.	Millimeters	Inches
	Min.	Min.
A	1.10	0.043
B	0.50	0.020
C	0.80	0.031

ORDERING INFORMATION

Part Number	Component Package	QTY/Reel	Reel Size
SE7D15U3.3A	SOD-723	8000PCS	7"

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