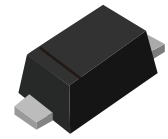


FEATURES

- | 120W Peak Pulse Power per Line (tp=8/20μs)
- | Working voltages : 3.3 V
- | Low reverse clamping voltage
- | Low leakage current

APPLICATIONS

- | Computers and peripherals
- | Audio and video equipment
- | Cellular handsets and accessories
- | Portable electronics
- | Other electronics equipments communication systems



SOD-723



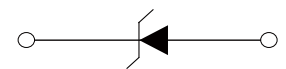
Marking

IEC COMPATIBILITY

- | IEC61000-4-2 (ESD) ±25kV (air), ±25kV (contact)
- | IEC61000-4-4 (EFT) 40A (5/50ns)

APPROVALS

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



Schematic Symbol

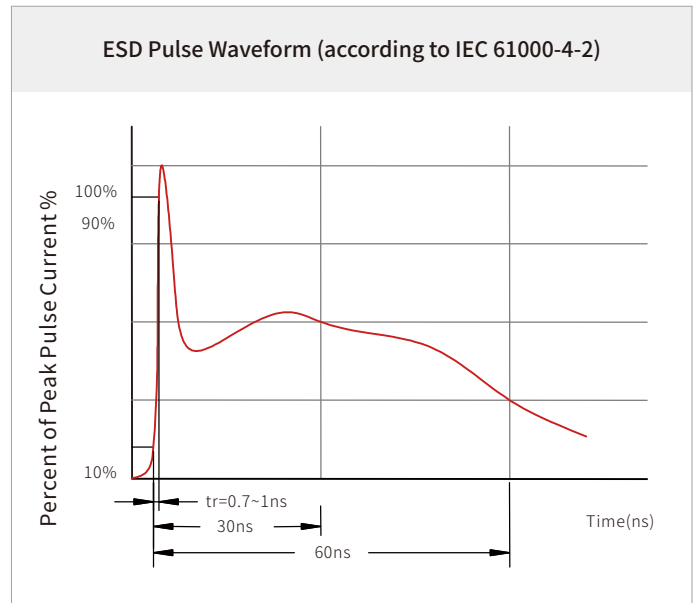
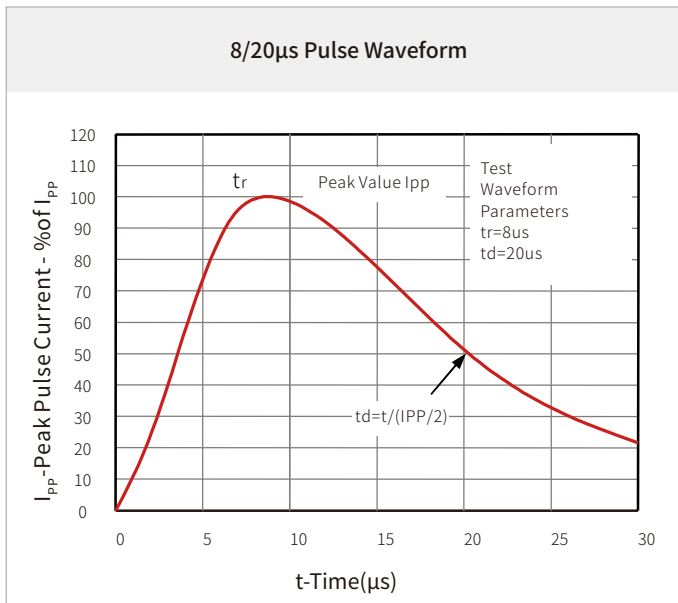
THERMAL CONSIDERATIONS

Symbol	Parameter	Value	Unit
P_{pp}	Peak Pulse Power (tp=8/20μs waveform)	120	Watts
T_J	Operating Temperature Range	-55 to +150	°C
T_{STG}	Storage Temperature Range	-55 to +150	°C

ELECTRICAL CHARACTERISTICS

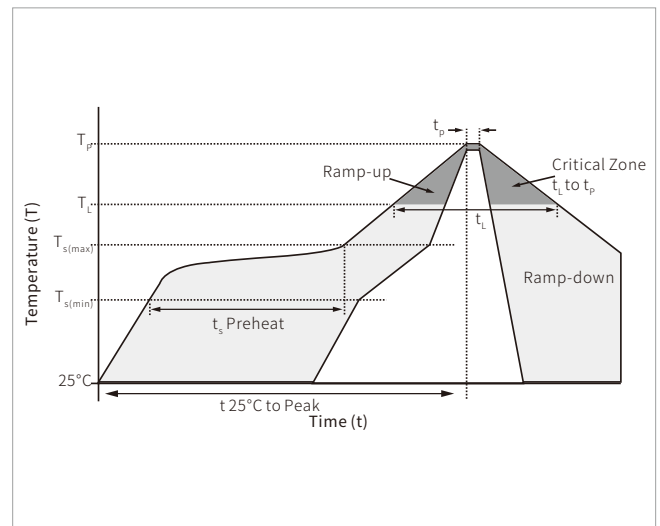
Symbol	Parameter	Condition	Min.	Typ.	Max.	Unit
V_{RWM}	Reverse Stand-off Voltage				3.3	V
V_{BR}	Reverse Breakdown Voltage	$I_T=1mA$	5			V
I_R	Reverse Leakage Current	$V_{RWM}=3.3V$			2.5	μA
V_F	Forward voltage	$I_F=10mA$			0.9	V
V_C	Clamping Voltage	$I_{pp}=9A, tp=8/20us$			13	V
I_{PP}	Peak Pulse Current	$tp=8/20us$			9	A
C_J	Off State Junction Capacitance	$V_R=0V, f=1MHz$		110		pF

CHARACTERISTIC CURVES

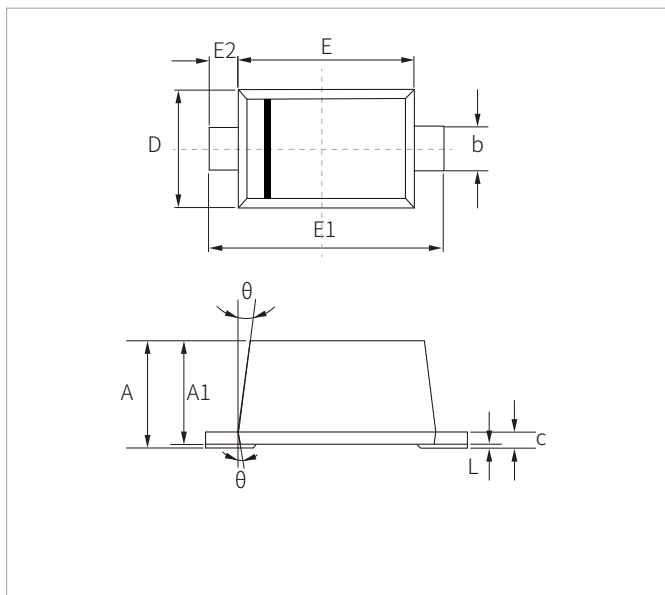


SOLDERING PARAMETERS

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

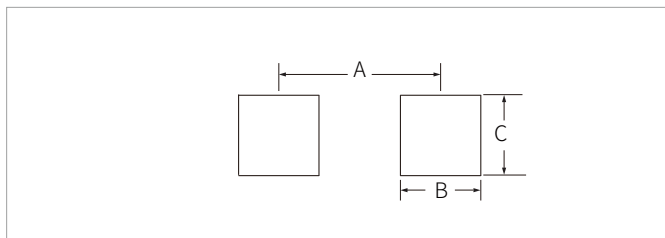


SOD-723 PACKAGE INFORMATION



Ref.	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	0.525	0.650	0.021	0.026
A1	0.515	0.580	0.020	0.023
b	0.250	0.350	0.010	0.014
c	0.080	0.150	0.003	0.006
D	0.550	0.650	0.022	0.026
E	0.900	1.100	0.035	0.043
E1	1.300	1.500	0.051	0.059
E2	0.200REF		0.008REF	
L	0.010	0.070	0.001	0.003
θ	7° REF		7° REF	

RECOMMENDED PAD LAYOUT DIMENSIONS



Ref.	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	1.21	1.31	0.048	0.052
B	0.55	0.65	0.022	0.026
C	0.65	0.75	0.026	0.030

ORDERING INFORMATION

Part Number	Component Package	QTY/Reel	Reel Size
SE7D12U3.3A	SOD-723	8000PCS	7"

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By QR Code

Website



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