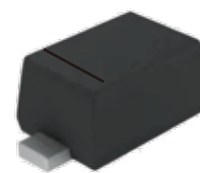


FEATURES

- Small Surface Mounting Type
- Low Reverse Current And Low Forward Voltage
- High Reliability



SOD-723

MECHANICAL DATA

- SOD-723 Small Outline Plastic Package
- Epoxy UL: 94V-0
- Mounting Position: Any



Marking



Schematic Symbol

APPROVALS

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

MAXIMUM RATINGS ($T_A=25^{\circ}\text{C}$)

Parameter	Symbol	Value	Unit
DC Blocking Voltage	V_R	30	V
Mean Rectifying Current	I_O	200	mA
Non-Repetitive Peak Forward Surge Current @ $T=8.0\text{ms}$	I_{FSM}	500	mA
Power Dissipation	P_D	100	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	1000	$^{\circ}\text{C}/\text{W}$
Operating Junction Range	T_J	-40 to 125	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-55 to 150	$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS($T_A=25^{\circ}\text{C}$)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage	V_F	$I_F=10\text{mA}$			0.45	V
Reverse Leakage Current	I_R	$V_R=10\text{V}$			0.5	μA

CHARACTERISTIC CURVES

Fig.1 Forward Characteristics

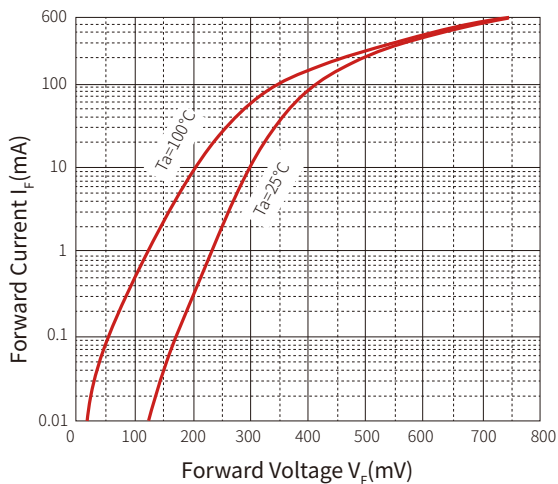


Fig.2 Reverse Characteristics

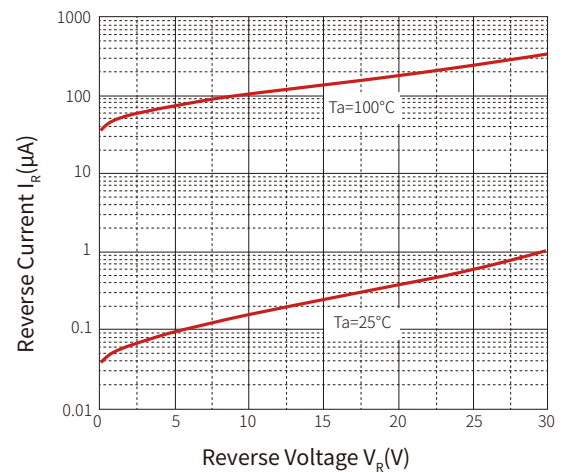


Fig.3 Capacitance Characteristics

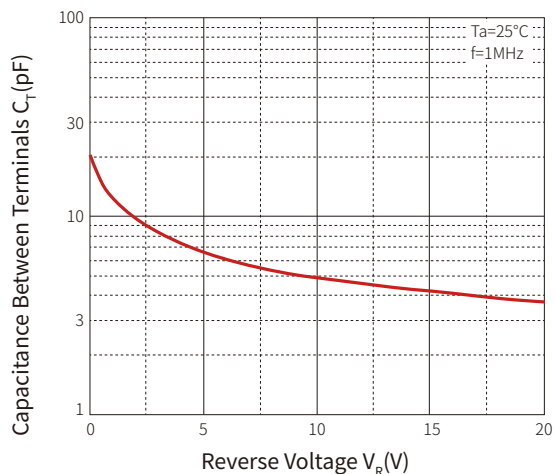
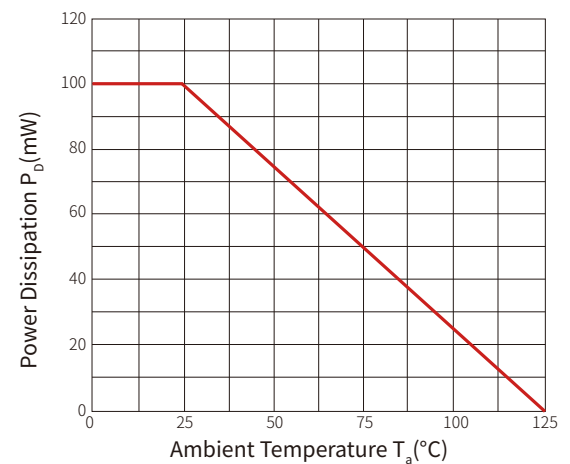
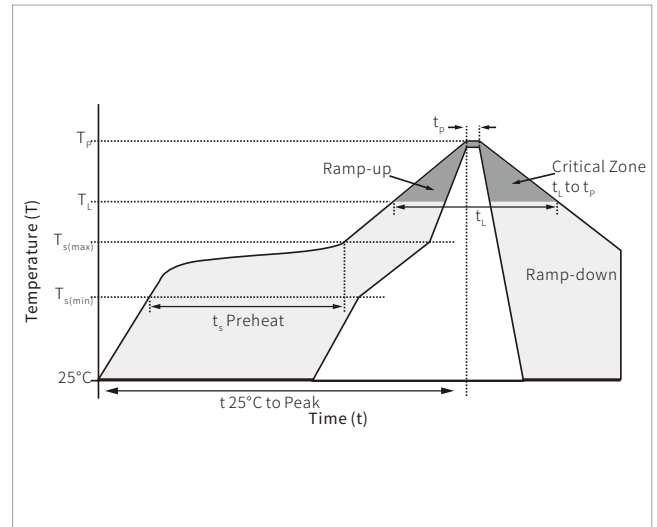


Fig.4 Power Derating Curve

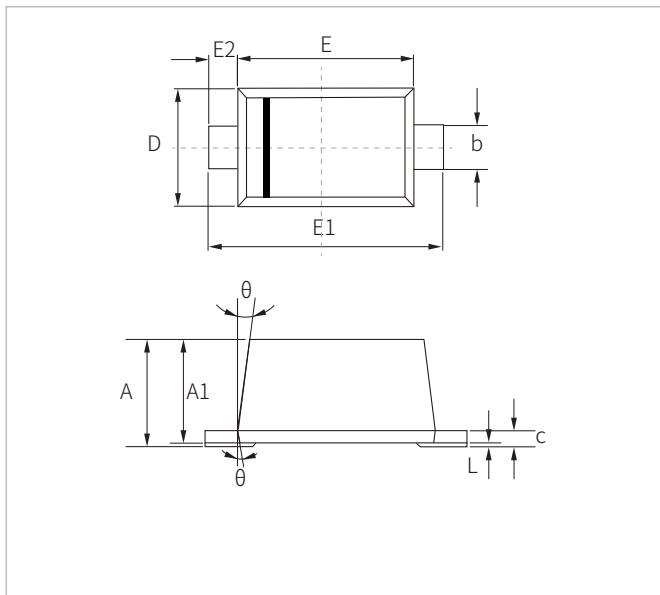


SOLDERING PARAMETERS

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

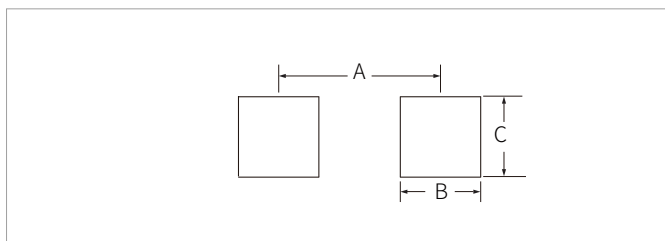


SOD-723 PACKAGE INFORMATION



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
RB520G-30	SOD-723	8000PCS	7"

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By QR Code

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