

Features

- Small surface mounting type
- Low reverse current and low forward voltage
- High reliability



SOD-723



Equivalent Circuit

Absolute Maximum Ratings($T_A=25^{\circ}\text{C}$)

Symbol	Parameter	Value	Unit
V_R	DC reverse voltage	30	V
I_O	Mean rectifying current	200	mA
I_{FSM}	Non-repetitive Peak Forward Surge Current @ $t=8.3\text{ms}$	500	mA
P_D	Power dissipation	100	mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient Air	1000	$^{\circ}\text{C/W}$
T_J	Junction Temperature	$-40 \sim +125$	$^{\circ}\text{C}$
T_{STG}	Storage Temperature Range	$-55 \sim +150$	$^{\circ}\text{C}$

Electrical Characteristics ($T_A=25^{\circ}\text{C}$ unless otherwise specified)

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

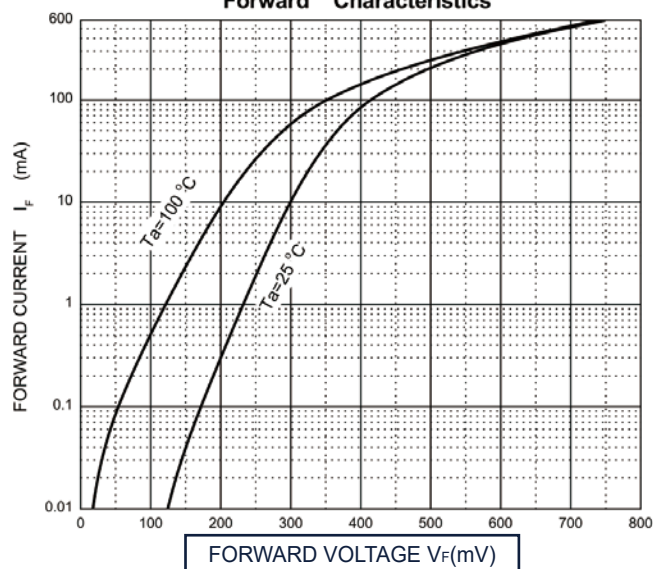
Ordering information

Product ID	Pack	Naming rule	Marking	Qty(PCS)
RB520G-30	SOD-723	RB520G-30 产品名称 product name	E	8000

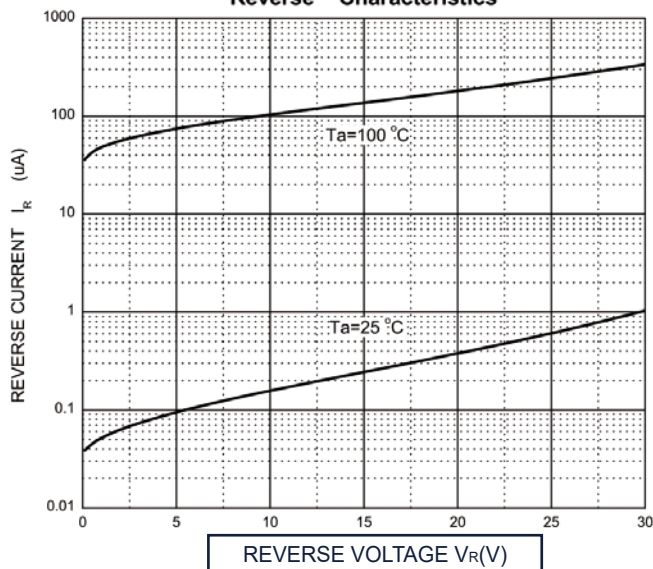


Typical Characteristics

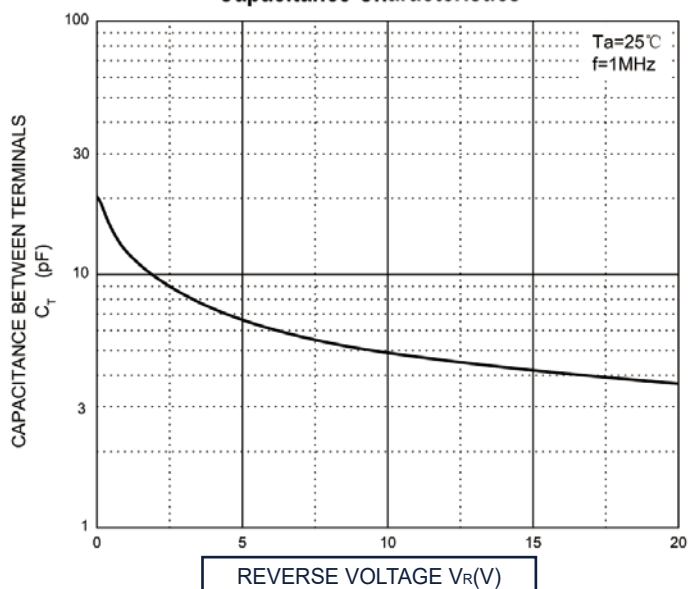
Forward Characteristics



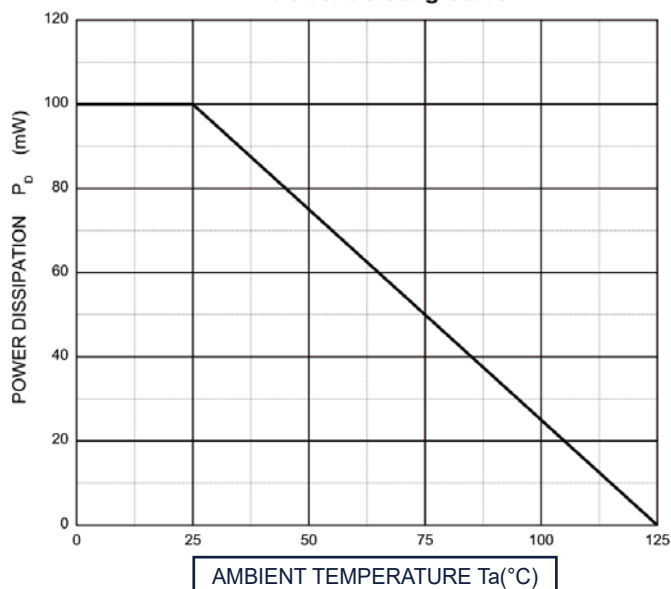
Reverse Characteristics



Capacitance Characteristics

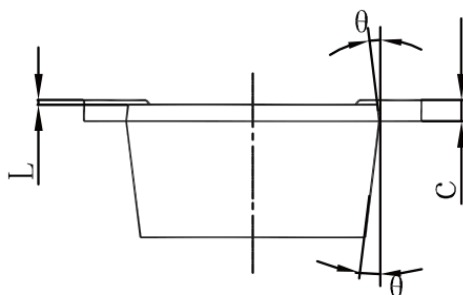
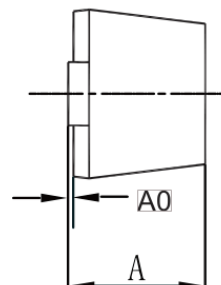
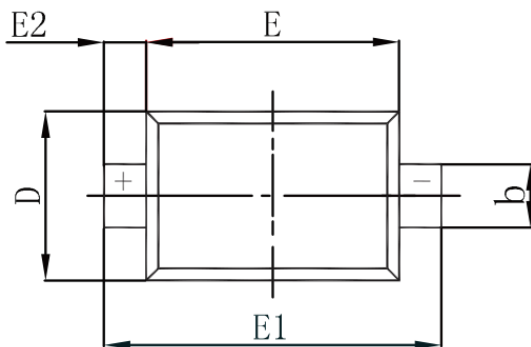


Power Derating Curve





SOD-723 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	min	max	min	max
A	0.450	0.550	0.018	0.022
A0	0.000	0.020	0.000	0.008
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	0.200 REF		0.008 REF	
L	0.010	0.070	0.001	0.003
θ	7° REF		7° REF	