

Features

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



SOD-523



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 @ $t=8.3\text{ms}$	1	A
P_D	Power dissipation	150	mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient Air	667	$^{\circ}\text{C}/\text{W}$
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)

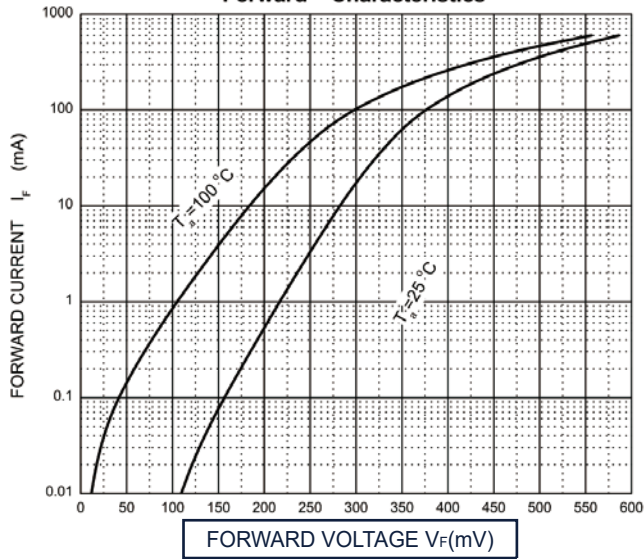
Symbol	Parameter	Min	Typ	Max	Unit	Conditions
V_{F1}	Forward voltage			0.35	V	$I_F=10\text{mA}$
V_{F2}				0.5	V	$I_F=200\text{mA}$
I_R	Reverse current			30	μA	$V_R=10\text{V}$

Ordering information

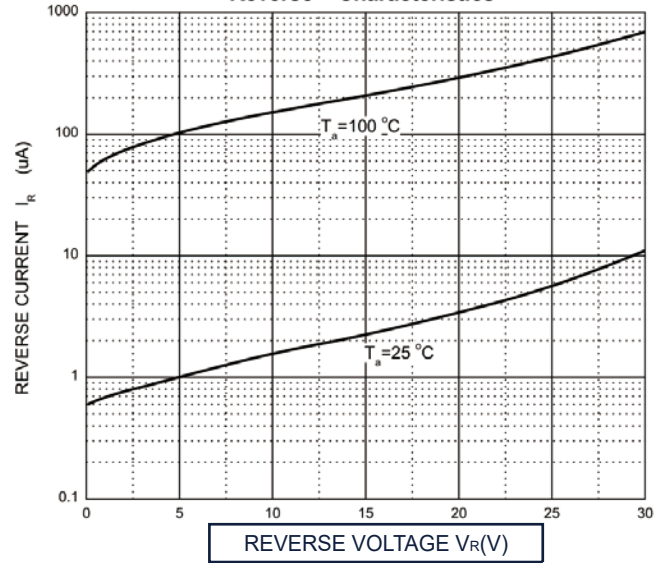
Product ID	Pack	Naming rule	Marking	Qty(PCS)
RB521S-30	SOD-523	RB521S-30 ↓ 产品名称 product name	C	3000

Typical Characteristics

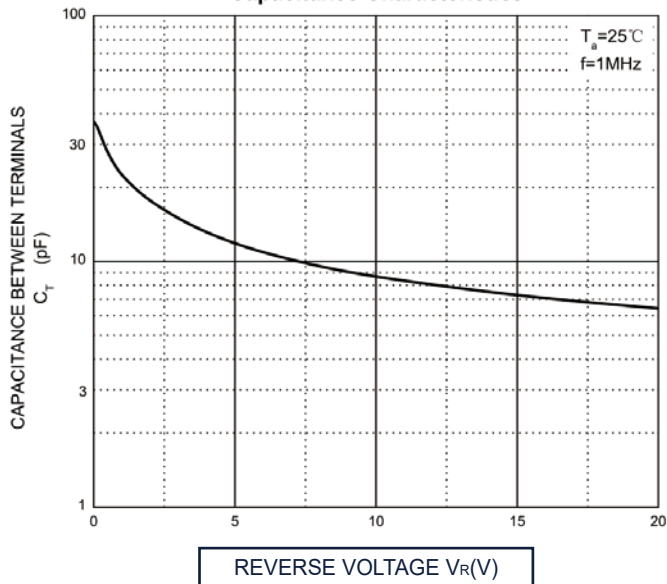
Forward Characteristics



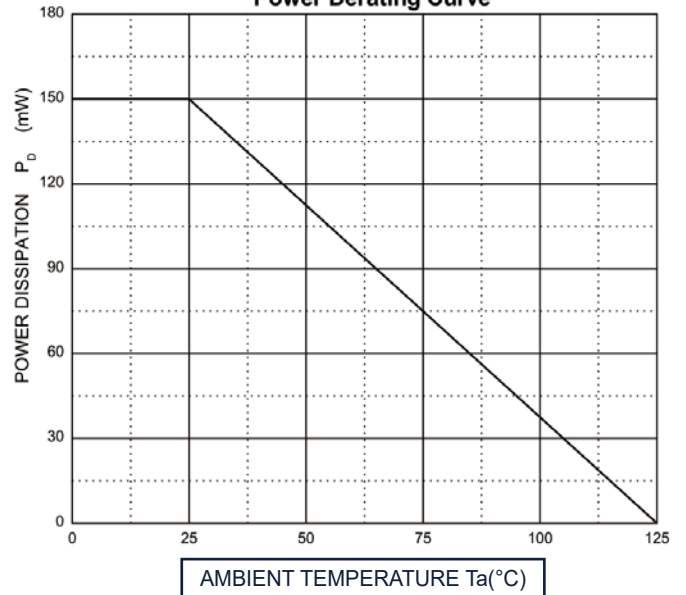
Reverse Characteristics



Capacitance Characteristics

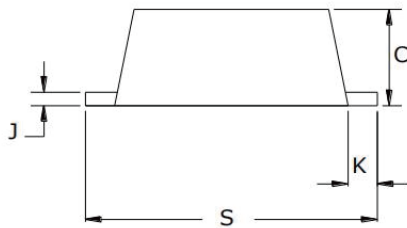
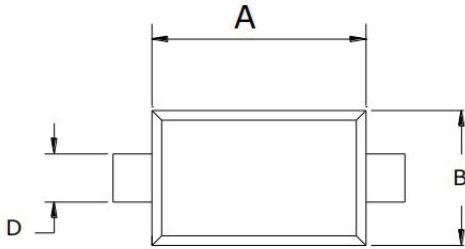


Power Derating Curve



Package Outline Dimensions

SOD523



SYMBOL	MILLIMETERS	
	MIN	MAX
A	1.10	1.30
B	0.70	0.90
C	0.50	0.70
D	0.25	0.35
J	0.07	0.20
K	0.15	0.25
S	1.50	1.70

Soldering Footprint (mm)

