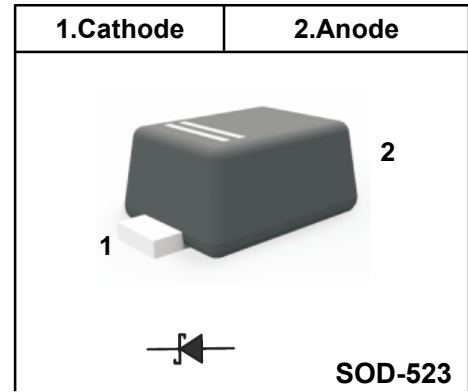


■ Schottky Barrier Diode

Features

- Low Forward Voltage Drop
- Flat Lead SOD-523 Small Outline Plastic Package
- Matte Tin(Sn) Lead Finish

Pinning



Marking Code

RB520S-30	B
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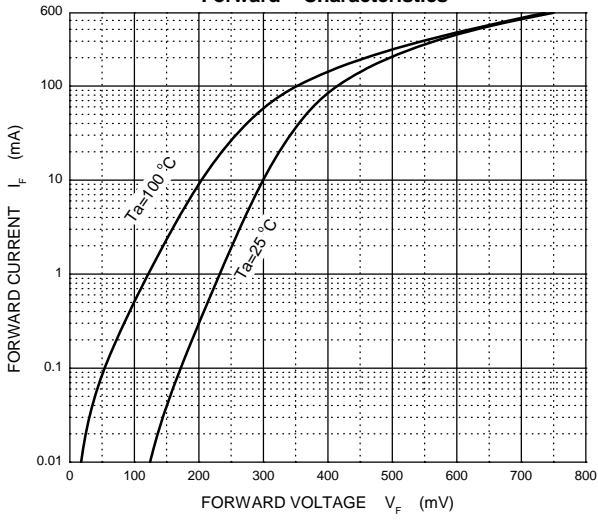
ABSOLUTE MAXIMUM RATING TA = 25°C unless otherwise noted

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RM}	30	V
Average Rectified Output Current	$I_{F(AV)}$	200	mA
Peak Forward Surge Current (At 8.3ms single half sine-wave)	I_{FSM}	1	A
Power Dissipation	P_D	200	mW
Junction Temperature	T_J	125	°C
Storage Temperature range	T_{stg}	-55 to +125	

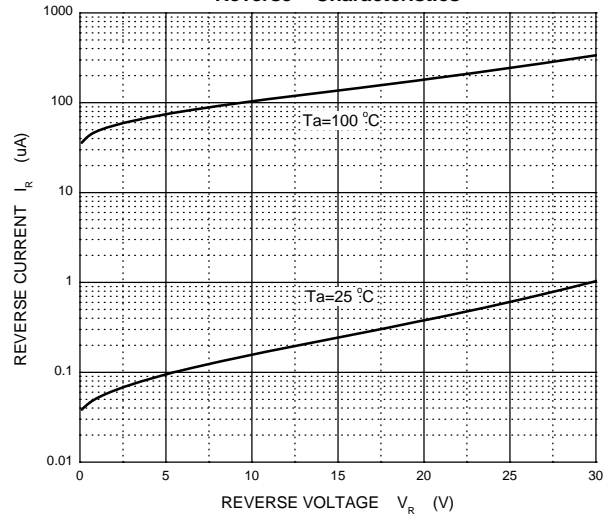
Electrical Characteristics TA = 25°C unless otherwise noted

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Breakdown Voltage	B_V	$I_R = 500\mu A$	30			V
Forward voltage	V_F	$I_F = 200mA$			0.6	V
Reverse Leakage current	I_R	$V_R = 10 V$			1	μA

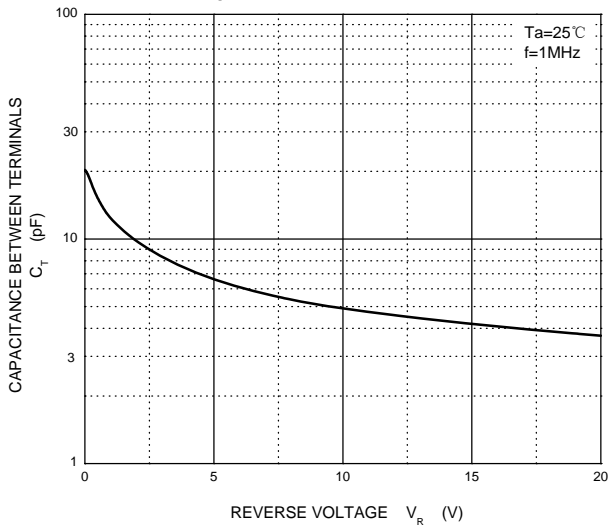
Forward Characteristics



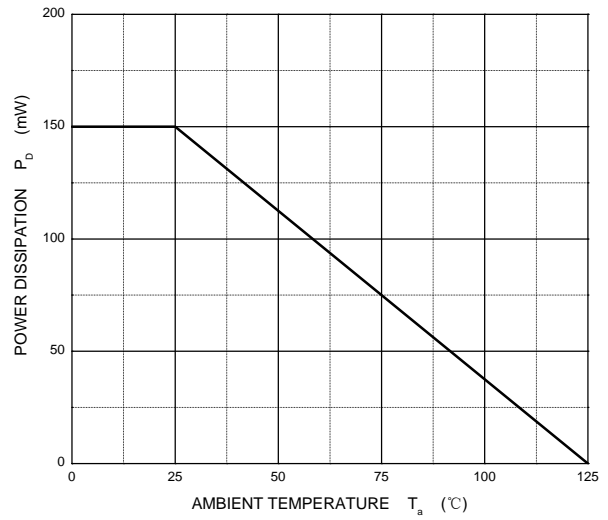
Reverse Characteristics



Capacitance Characteristics



Power Derating Curve



Ordering information

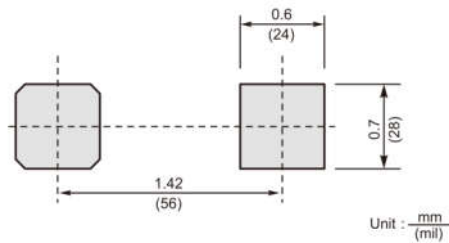
Package	Packing Description	Packing Quantity
SOD-523	Tape/Reel, 7" reel	3000PCS/Reel 120000PCS/Carton

Package Dimensions

SOD-523

Dim.	Millimeter(mm)		mil	
	Min.	Max.	Min.	Max.
A	0.51	0.77	20	30
e	0.25	0.35	10	14
C	0.08	0.15	3	6
D	1.10	1.30	43	51
E	0.75	0.99	30	39
HE	1.50	1.70	59	67
N	0.35ref		14ref	
L	0.2ref		8ref	
P	R0.1 ALL ROUND		R4.0 ALL ROUND	
∠	10°			

The recommended mounting pad size



Disclaimer

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