

Features

- Low VF
- High reliability
- We declare that the material of product compliance with RoHS requirements and Halogen Free
- S-prefix for automotive and other applications requiring unique site and control change requirements; AEC-Q101 qualified and PPAP capable



SOD-923 top view



Schematic diagram

Application

- Low current rectification



Marking and pin assignment



Halogen-Free

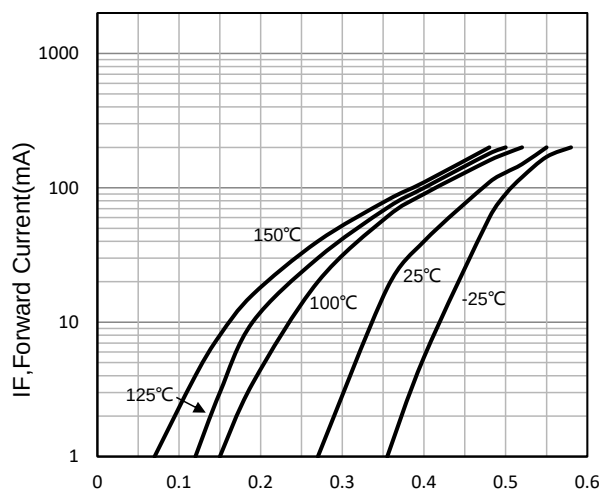
Maximum Ratings($T_a=25^{\circ}\text{C}$ unless otherwise noted)

Symbol	Parameter	Value	Unit
V_R	Reverse voltage (DC)	30	V
I_O	Average rectified forward current	100	mA
I_{FSM}	Forward current surge peak (60Hz · 1cyc)	500	mA
T_J	Junction temperature	125	$^{\circ}\text{C}$
T_{stg}	Storage temperature	-40~+125	$^{\circ}\text{C}$

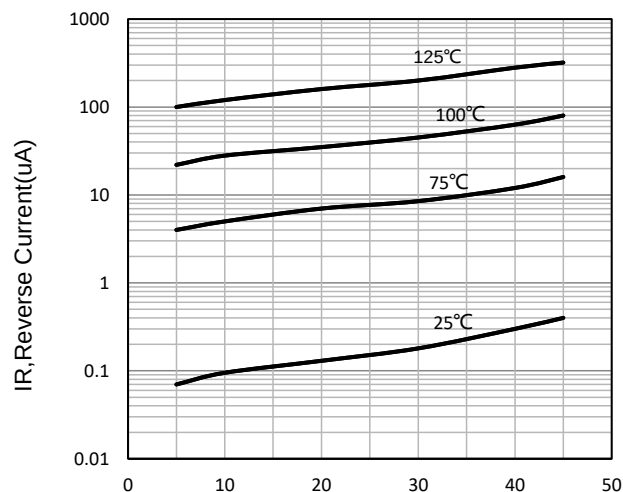
Electrical Characteristics ($T_J=25^{\circ}\text{C}$ unless otherwise noted)

Symbol	Parameter	Condition	Min	Typ	Max	Unit
I_R	Reverse current	$V_R=10\text{V}$	--	--	0.5	μA
V_F	Forward voltage	$I_F=10\text{mA}$	--	--	0.45	V
		$I_F=20\text{mA}$	--	--	0.50	V

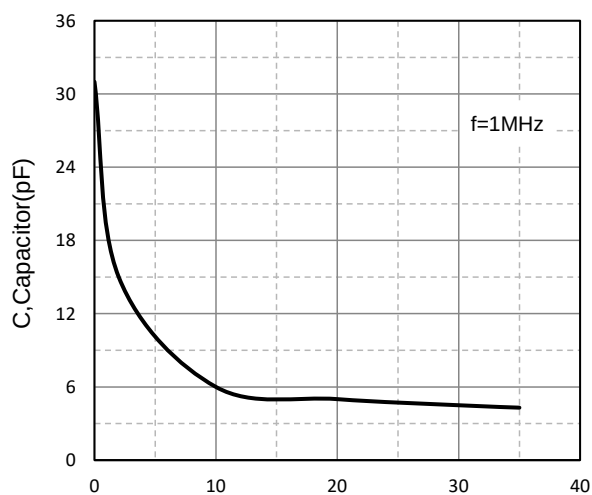
Typical Operating Characteristics



VF, Forward Voltage(V)
Forward Characteristics



VR, Reverse Voltage(V)
Reverse Characteristics

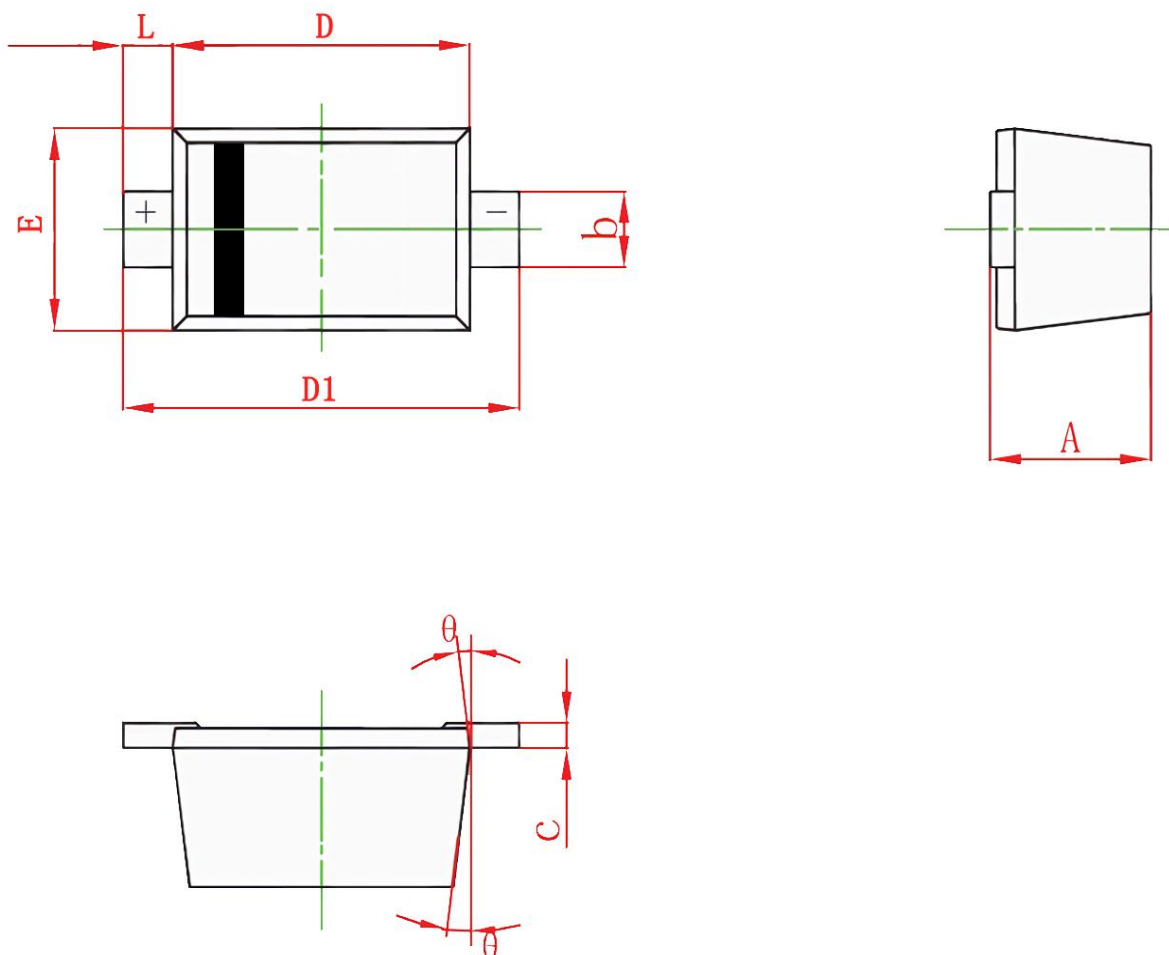


VR, Reverse Voltage(V)
Capacitor Characteristics

Ordering Information (Example)

Type	Package	Marking	Minimum Package(pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
RB520CS-30	SOD-923	E	8,000	120,000	480,000	7"reel

SOD-923 Package information



Symbol	Dimensions in Millimeters(mm)		Dimensions In Inches	
	Min	Max	Min	Max
A	0.350	0.450	0.014	0.018
b	0.250	0.350	0.010	0.014
c	0.050	0.150	0.002	0.006
D	0.750	0.850	0.030	0.033
D1	0.950	1.050	0.037	0.041
E	0.550	0.650	0.022	0.026
L	0.050	0.150	0.002	0.006
θ	-	5°	-	5°