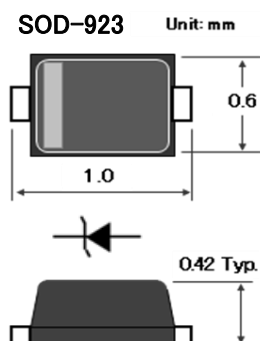


- ◇ Low current rectification
- ◇ Low forward voltage
- ◇ **SOD-923** Micro SMD package
- ◇ RoHS compliant
- ◇ UL-94 V-0 / Green EMC
- ◇ Matte Tin Lead finish (Pb-Free)
- ◇ Cathode Band / Device marking:
- ◇ AEC-Q101 Compliant

Device Marking Code	
RB521SM9-30	F5


Absolute Maximum Ratings (Ta = 25 °C)

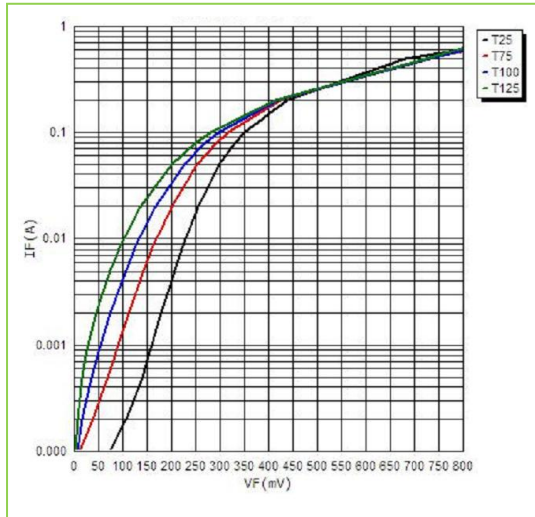
Symbol	Parameter	Value	Units
V_{RRM}	Repetitive Peak Reverse Voltage	40	V
V_R	Reverse Voltage	30	V
I_O	Continuous Forward Current	200	mA
I_{FSM}	Non-Repetitive Peak Forward Current *1	1	A
T_J	Junction Temperature	125	°C
T_{STG}	Storage Temperature	-55 to +125	°C

*1: 8.3ms Single Half Sine-Wave

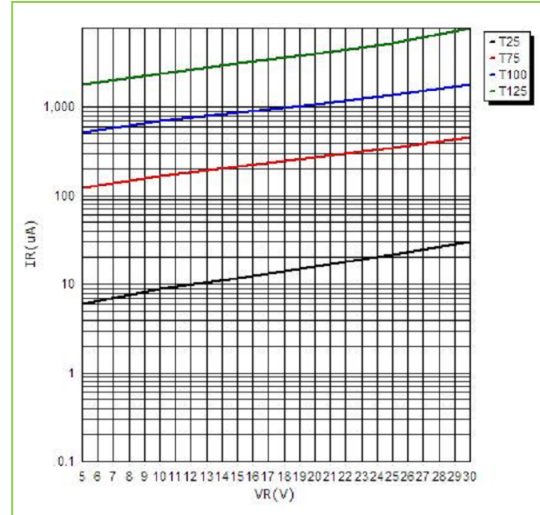
Electrical Characteristics (Ta = 25 °C)

Symbol	Parameter	Conditions	Min	Typ	Max	Units
V_F	Forward Voltage	$I_F = 10\text{mA}$			0.35	V
		$I_F = 200\text{mA}$			0.50	V
BV_R	Breakdown Voltage	$I_R = 500\mu\text{A}$	40			V
I_R	Reverse Current	$V_R = 10\text{V}$			30	μA
		$V_R = 20\text{V}$			100	μA

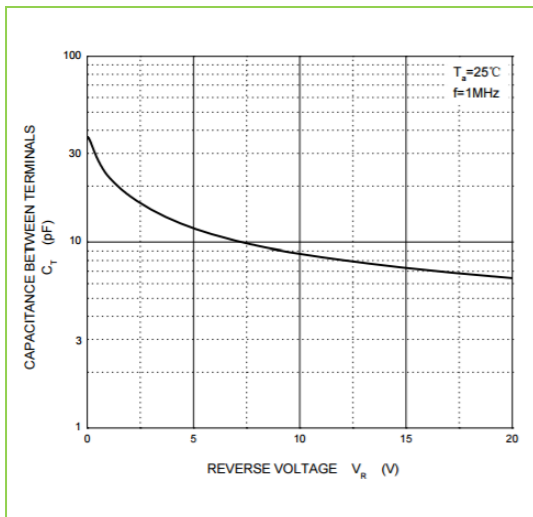
Characteristics Curves



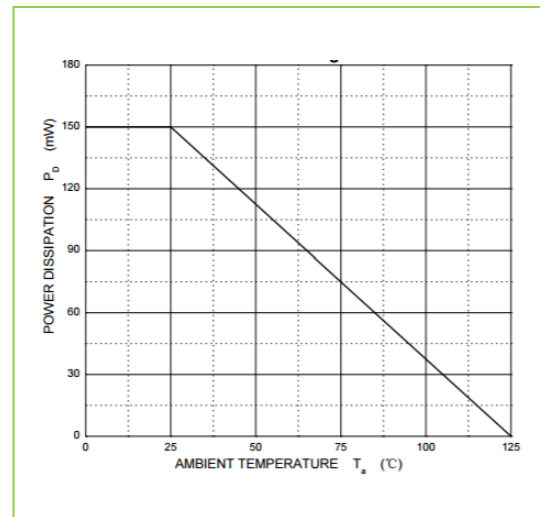
Forward current(I_F) vs Forward voltage(V_F)



Reverse current(I_R) vs Reverse voltage(V_R)



Capacitance Characteristics



Power Derating Curve

Ordering Information

Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Notes
RB521SM9-30	SOD-923	8,000 pcs / 7" Reel	8 mm	2 mm	Conductive	

Package Dimensions

