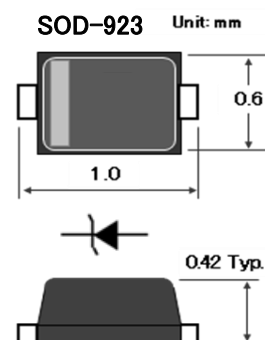


- ◇ Low current rectification
- ◇ Low forward voltage
- ◇ **SOD-923** Micro SMD package
- ◇ RoHS compliant
- ◇ UL-94 V-0 / Green EMC
- ◇ Matte Tin Lead finish (Pb-Free)
- ◇ Cathode Band / Device marking:

Device Marking Code	
RB521M9	C5



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

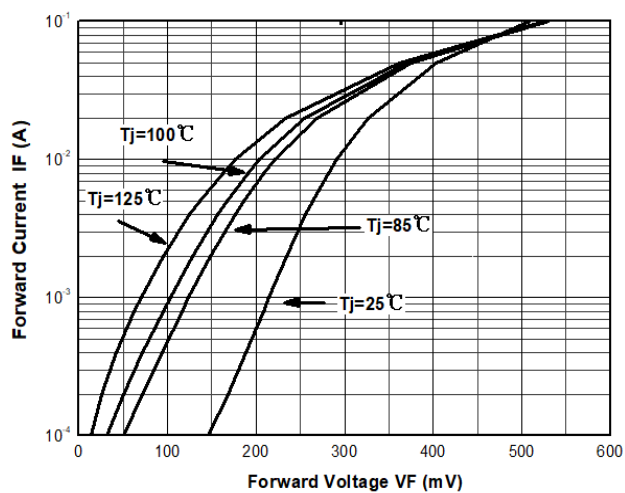
Symbol	Parameter	Value	Units
V_{RRM}	Repetitive Peak Reverse Voltage	30	V
V_R	Reverse Voltage	30	V
I_O	Continuous Forward Current	100	mA
I_{FSM}	Non-Repetitive Peak Forward Current *1	500	mA
T_J	Junction Temperature	125	$^{\circ}\text{C}$
T_{STG}	Storage Temperature	-55 to +125	$^{\circ}\text{C}$

*1: 8.3ms Single Half Sine-Wave

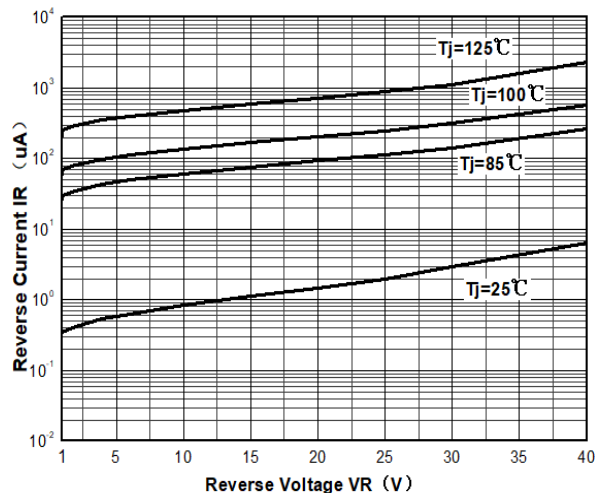
Electrical Characteristics ($T_a = 25\text{ }^{\circ}\text{C}$)

Symbol	Parameter	Conditions	Min	TYP	Max	Units
V_F	Forward Voltage	$I_F = 10\text{mA}$			0.35	V
		$I_F = 20\text{mA}$			0.40	V
BV_R	Breakdown Voltage	$I_R = 100\text{ }\mu\text{A}$	30			V
I_R	Reverse Current	$V_R = 10\text{V}$			10	μA
		$V_R = 30\text{V}$			50	μA

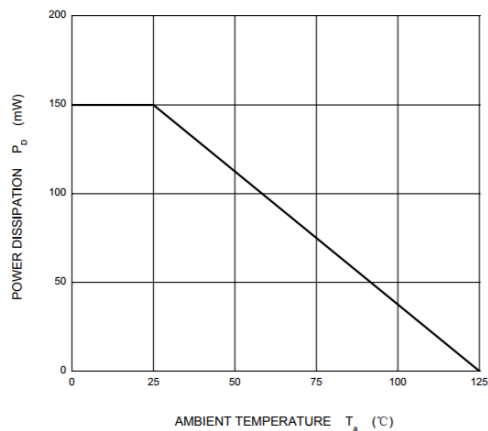
Typical Characteristics



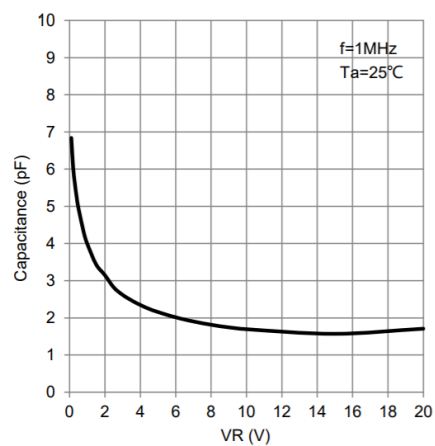
Forward Characteristics



Reverse Characteristics



Power Derating Curve



CT vs VR

Ordering Information

Device	Package	Shipping	Tape wide	Embos pitch	Tape specification	Notes
RB521M9	SOD-923	8,000 pcs / 7" Reel	8 mm	2 mm	Conductive	

Package Dimensions

