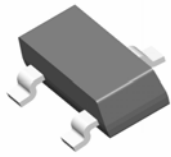
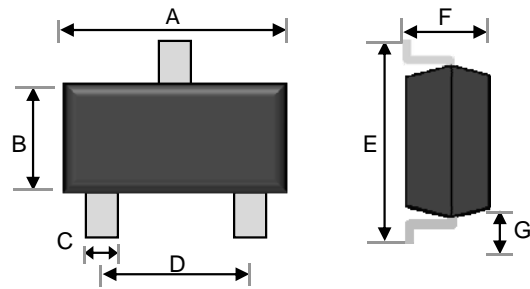


Small Signal Diode



SOT23



Features

- ✧ Low V_F , Low I_R , High Reliability Schottky Diode
- ✧ Surface device type mounting
- ✧ Moisture sensitivity level 1
- ✧ Matte Tin(Sn) lead finish with Nickel(Ni) underplate
- ✧ Pb free version and RoHS compliant
- ✧ Green compound (Halogen free) with suffix "G" on packing code and prefix "G" on date code

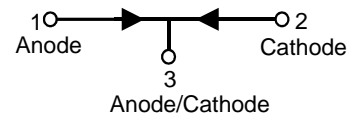
Mechanical Data

- ✧ Case :SOT-23 small outline plastic package
- ✧ Terminal: Matte tin plated, lead free., solderable per MIL-STD-202, Method 208 guaranteed
- ✧ High temperature soldering guaranteed: 260°C/10s
- ✧ Weight :0.008 gram (approximately)

Dimensions	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
A	2.65	3.05	0.104	0.120
B	1.19	1.40	0.047	0.055
C	0.37	0.51	0.015	0.020
D	1.78	2.05	0.070	0.080
E	2.10	2.50	0.083	0.098
F	0.89	0.11	0.035	0.043
G	0.45	0.61	0.018	0.024

Ordering Information

Part No.	Package	Packing
RB495D RF	SOT23	3Kpcs/7" Reel



Electrical Symbol

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Maximum Ratings

Type Number	Symbol	Value	Units
Power Dissipation	P_D	200	mW
Repetitive Peak Reverse Voltage	V_{RRM}	40	V
Reverse Voltage	V_R	25	V
Mean Forward Current	I_o	350	mA
Non-Repetitive Peak Forward Surge Current (Note 1)	I_{FSM}	1.5	A
Junction and Storage Temperature Range	T_J, T_{STG}	-40 to + 125	°C

Electrical Characteristics

Type Number	Symbol	Min	Max	Units
Reverse Breakdown Voltage	$I_{R=}$ 100 μ A $V_{(BR)}$	40	-	V
Forward Voltage	$I_{F=}$ 10mA V_F	-	0.3	V
	$I_{F=}$ 200mA V_F	-	0.5	
Reverse Leakage Current	$V_R=$ 25V I_R	-	70	μ A
Junction Capacitance	$V_R=0, f=1.0$ MHz C_J	-	50	pF

Notes:1. 8.3ms singlehalf Sine-wave

Small Signal Diode

Rating and Sharacteristic Curves

FIG 1 Typical Forward Characteristics

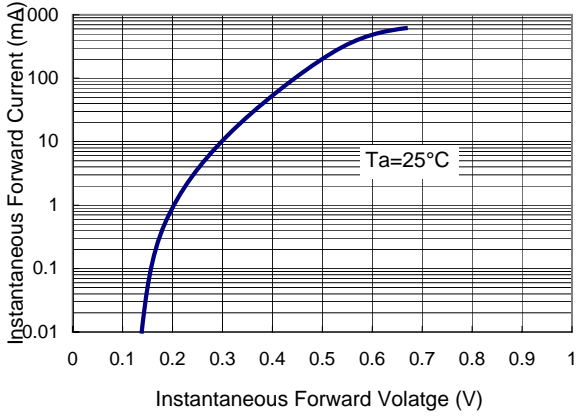


FIG 2 Reverse Current vs Reverse Voltage

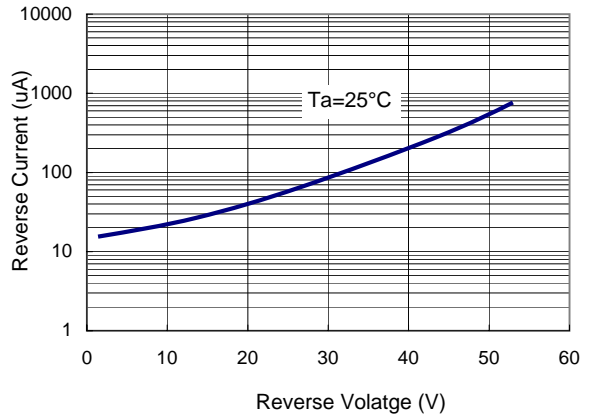


FIG 3 Admissible Power Dissipation Curve

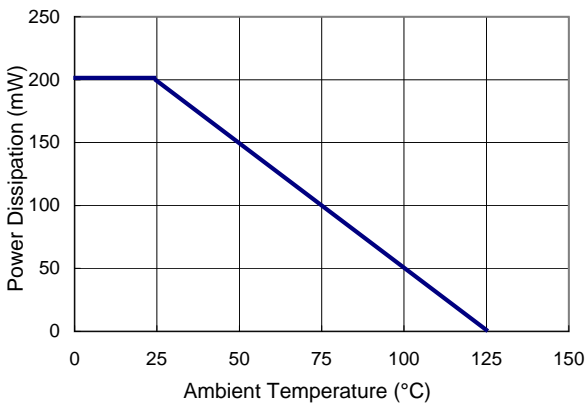


FIG 4 Typical Junction Capacitance

