

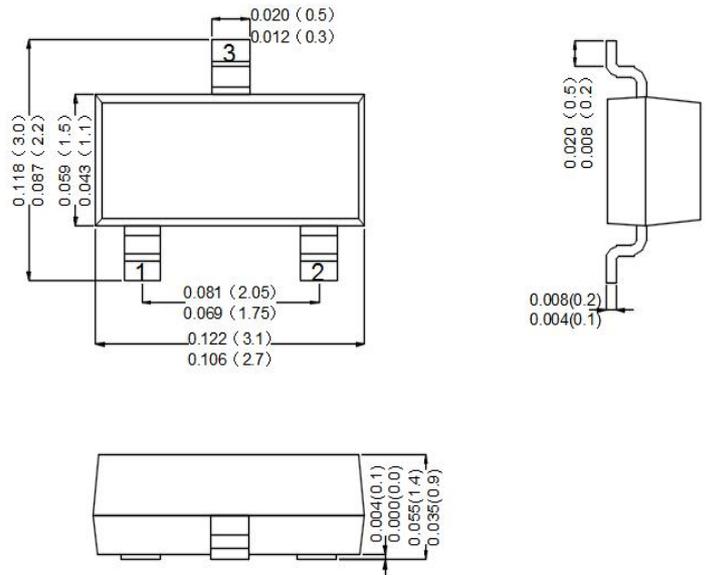
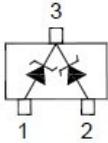


Features

SOT-23

Mechanical Data

- Case: Molded Plastic, SOT-23
- Epoxy: UL 94V-0 rate flame retardant
- Terminals: Plated Leads Solderable per MIL-STD-750, Method-2026.
- Marking: RB
- Mounting Position : Any.
- Equivalent Circuit:



Maximum Ratings Maximum Ratings (Rating at 25°C ambient temperature unless otherwise specified.)

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V_{RM}	40	V
Reverse Voltage	V_R	40	V
Mean Rectifying Current	I_O	30	mA
Peak Forward Surge Current ¹⁾	I_{FSM}	200	mA
Junction Temperature	T_j	125	°C
Storage Temperature Range	T_s	- 40 to + 125	°C

¹⁾ 60 Hz for 1

Electrical Characteristics (Rating at 25°C ambient temperature unless otherwise specified.)

Parameter	Symbol	Typ.	Max.	Unit
Forward Voltage at $I_F = 1$ mA	V_F	-	0.37	V
Reverse Current at $V_R = 10$ V	I_R	-	1	μA
Capacitance between Terminals at $V_R = 1$ V, $f = 1$ MHz	C_T	2	-	pF

Note: ESD sensitive product handling required.



Rating And Characteristic Curves

Fig.1 Forward characteristics

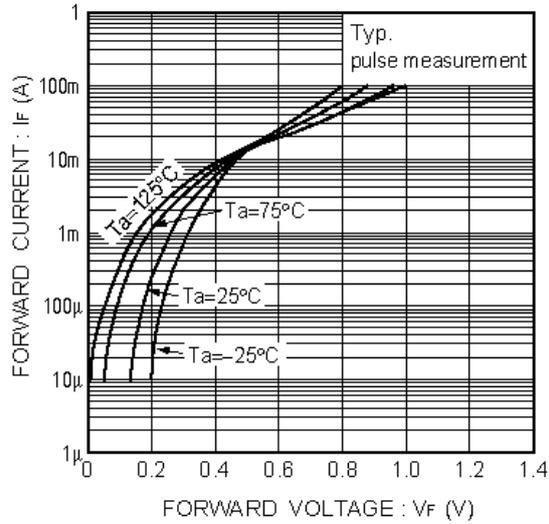


Fig.2 Reverse characteristics

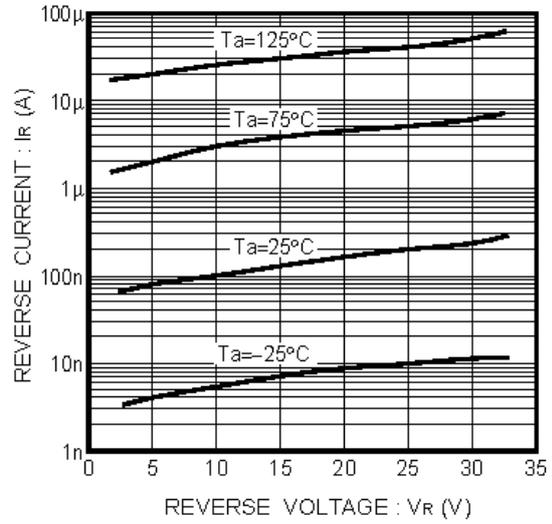


Fig.3 Capacitance between terminals characteristics

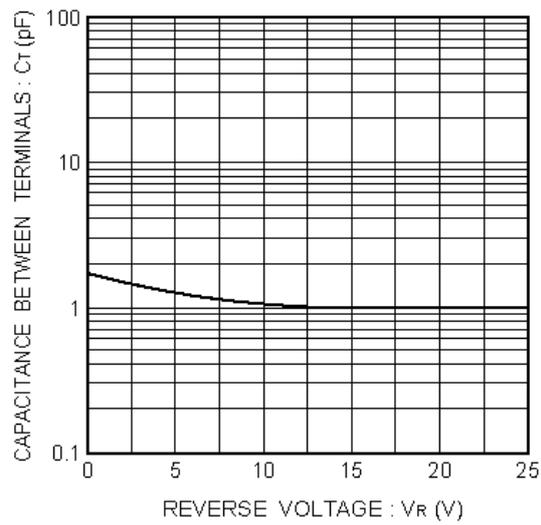
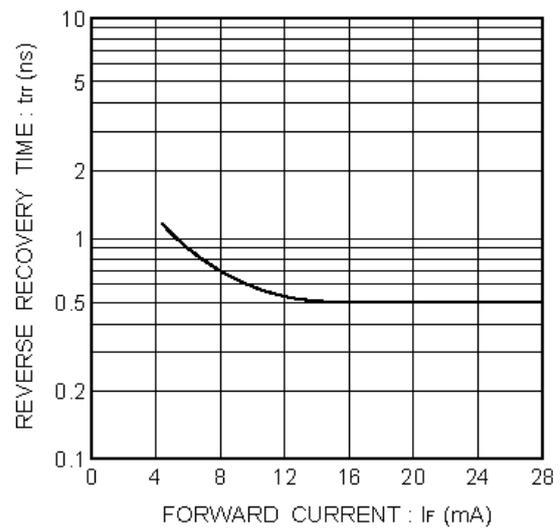


Fig.4 Reverse recovery time characteristics





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