



BAR43 THRU BAR43S

Silicon Epitaxial Planar Switching Diode

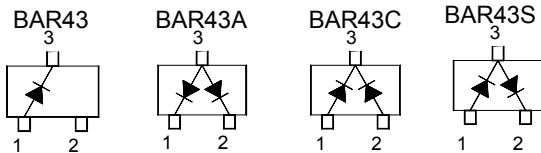
Features

- Small package
- High Conductance

SOT-23

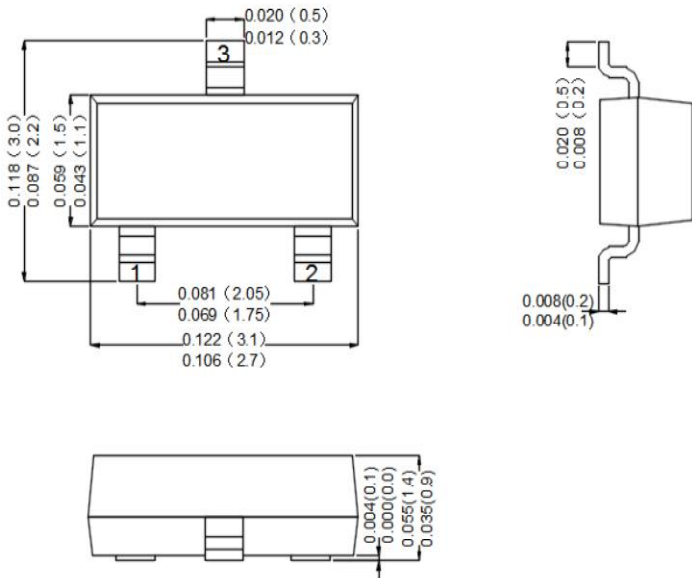
Mechanical Data

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



- Marking:

RD RE RF RH



Dimensions in inches and (millimeters)

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

Parameter	Symbol	Value	Unit
Maximum Repetitive Reverse Voltage	V_{RRM}	30	V
Average Rectified Forward Current	$I_{F(AV)}$	200	mA
Non-repetitive Peak Forward Surge Current at (t = 1 s)	I_{FSM}	750	mA
Power Dissipation	P_{tot}	200	mW
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	500	°C/W
Operating Junction Temperature	T_J	125	°C
Storage Temperature Range	T_S	- 55 to + 150	°C

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

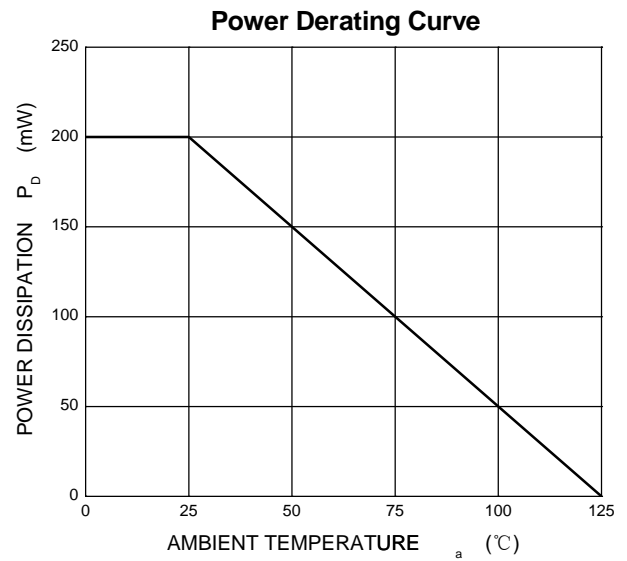
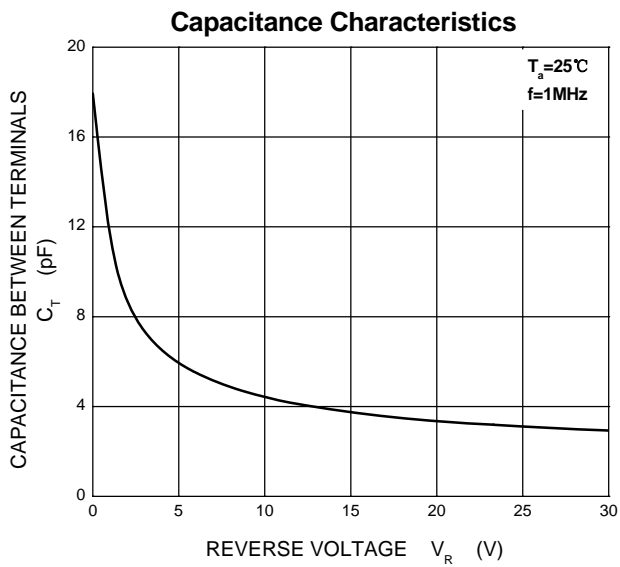
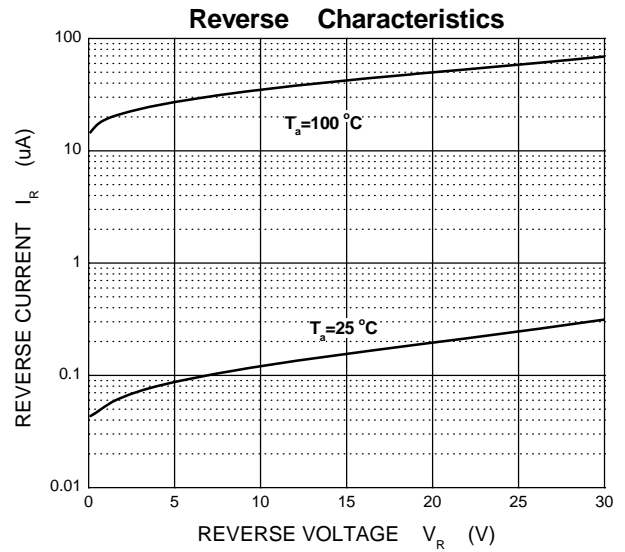
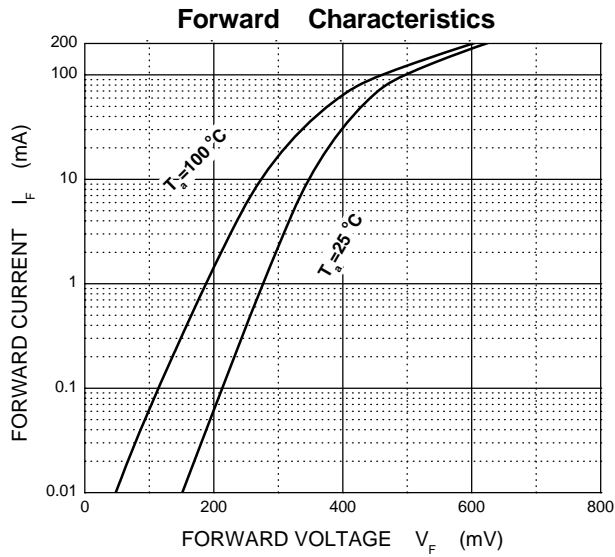
Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 100 \mu A$	$V_{(BR)R}$	30	-	V
Reverse Current at $V_R = 25 V$	I_R	-	500	nA
Forward Voltage at $I_F = 2 mA$ at $I_F = 15 mA$ at $I_F = 100 mA$	V_F	0.26 - -	0.33 0.45 0.8	V
Reverse Recovery Time at $I_F = I_R = 10 mA$, $I_{RR} = 1 mA$, $R_L = 100 \Omega$	t_{rr}	-	5	ns



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Rating And Characteristic Curves





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