

## BAR43-BAR43S

### Schottky Barrier Diode

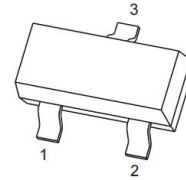
#### FEATURE

- High Conductance
- Low Current Leakage
- Small Outline Surface Mount Package
- RoHS compliant / Green EMC

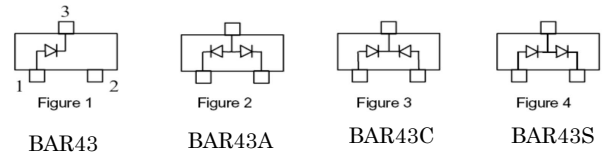
#### MARKING:

Catalog Number	Device Marking	Type	Pin Configuration
BAR43	D95	Single	Figure1
BAR43A	DB1	Dual	Figure2
BAR43C	DB2	Dual	Figure3
BAR43S	DA5	Dual	Figure4

#### SOT-23



#### Schematic diagram



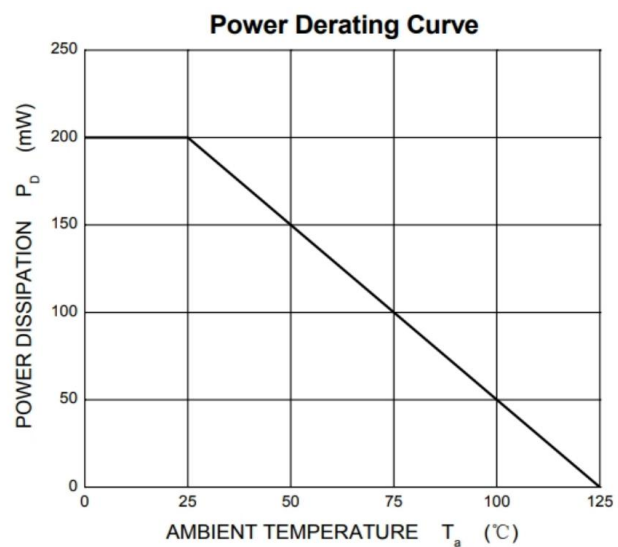
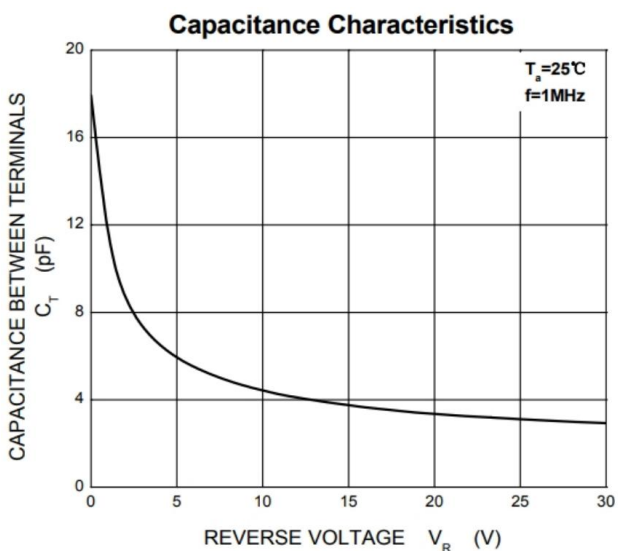
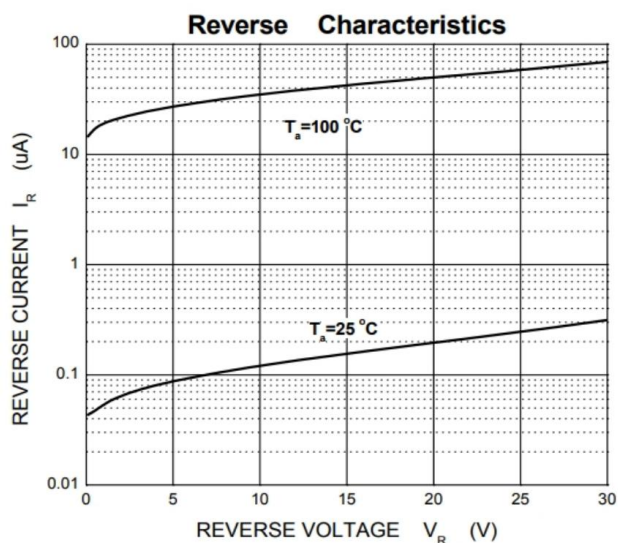
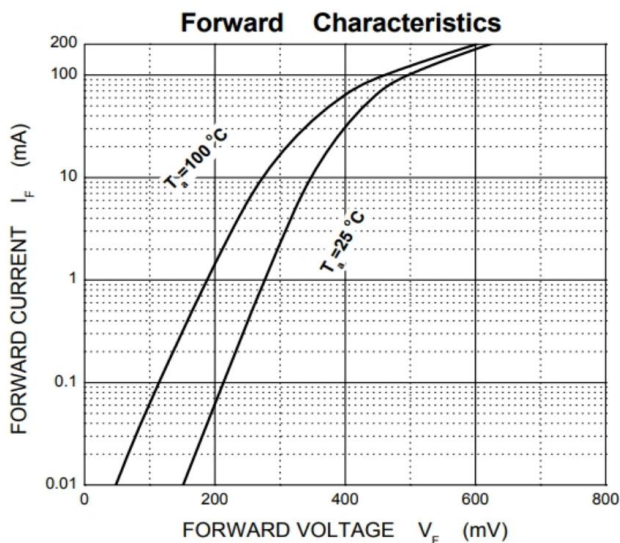
#### ABSOLUTE MAXIMUM RATINGS ( $T_a=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Value	Unit
Reverse Voltage	$V_R$	30	V
Forward Continuous Current	$I_F$	200	mA
Power Dissipation	$P_{tot}$	200	mW
Non-repetitive Peak Forward Surge Current @ $t=8.3\text{ms}$	$I_{FSM}$	0.75	A
Operating Junction Temperature Range	$T_J$	-55 to 125	$^{\circ}\text{C}$
Storage Temperature	$T_{stg}$	-55 to 150	$^{\circ}\text{C}$

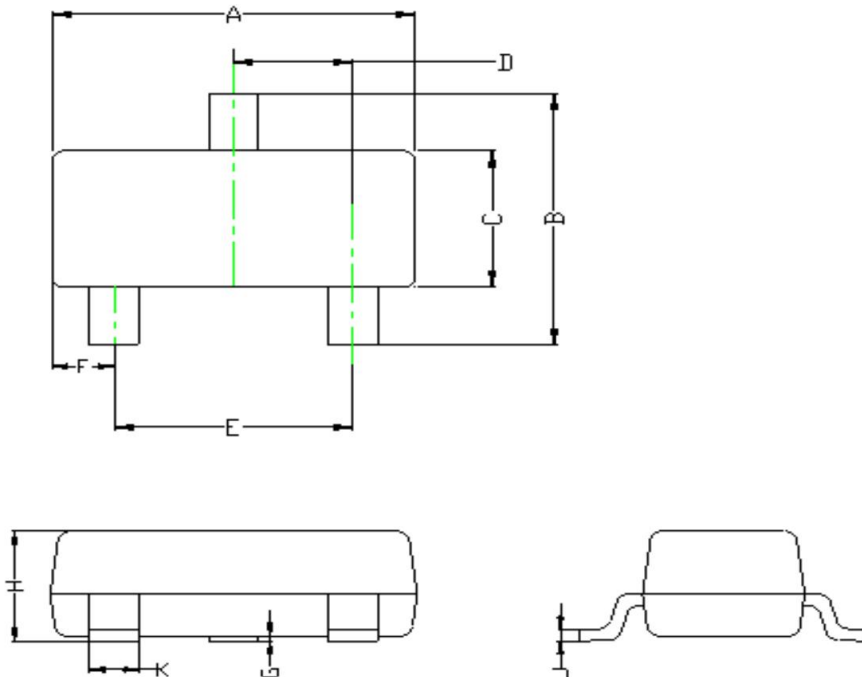
#### ELECTRICAL CHARACTERISTICS ( $T_a=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Test Condition	Min	Type	Max	Unit
Forward Voltage	$V_F$	$I_F=1\text{mA}$			0.33	V
		$I_F=15\text{mA}$			0.45	V
		$I_F=100\text{mA}$			0.80	V
Reverse breakdown voltage	$V_R$	$I_R=100\mu\text{A}$	30			V
Reverse voltage leakage current	$I_R$	$V_R=25\text{V}$			0.5	$\mu\text{A}$
Reverse recovery time	$T_{rr}$	$I_F=I_R=10\text{mA}, I_{rr}=1\text{mA}, R_L=100\Omega$			5	nS

Typical Electrical



**SOT-23 Package Informatio**



Symbol	Dimensions In Millimeters		
	Min	Typ	Max
A	2.800	-	3.040
B	2.100	-	2.640
C	1.200	-	1.400
D	0.890	-	1.030
E	1.780	-	2.050
F	0.450	-	0.600
G	0.013	-	0.100
H	0.900	-	1.110
J	0.090	-	0.180
K	0.370	-	0.510

1.Unit mm