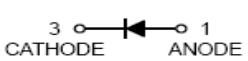
BAR43/A/C/S

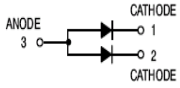
Small Signal Schottky Barrier Diode

FEATURES

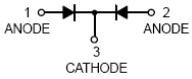
- Extremely Fast switching speed.
- Low forward voltage.
- Power dissipation P_d=200mW.



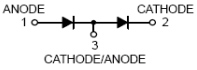
BAR43



BAR43A



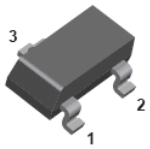
BAR43C



BAR43S

APPLICATIONS

- Fast switching speed diode



SOT-23

ORDERING INFORMATION

Type No.	Marking	Package Code
BAR43	D95	SOT-23
BAR43A	DB1	SOT-23
BAR43C	DB2	SOT-23
BAR43S	DA5	SOT-23

MAXIMUM RATING @ Ta=25℃ unless otherwise specified

Parameter	**Symbol**	**Limits**	**Unit**
Peak Repetitive Peak reverse voltage Working Peak Reverse Voltage DC Reverse Voltage	V_{RRM} V_{RWM} V_R	30	V
Forward Continuous Current	I_F	200	mA
Non-repetitive peak forward surge Current t=10ms	I_{FSM}	750	mA
Power Dissipation	P_d	290	mW
Thermal resistance,Junction to temperature	$R_{\theta JA}$	430	℃/W
Storage temperature	T_{STG}	-55 to +150	℃

BAR43/A/C/S

Small Signal Schottky Barrier Diode

ELECTRICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Reverse Breakdown Voltage	$V_{(BR)}$	30			V	I_R=100μA
Forward voltage	V_{F1}	0.26		0.33	V	I_F=2.0mA
	V_{F2}			0.45	V	I_F=15mA
	V_{F3}			1.0	V	I_F=100mA
Reverse current	I_R			0.5	μA	V_R=25V
				100	μA	V_R=25V,T_A=100℃
Diode Capacitanc	C_D			10	pF	V_R=1V,f=1MHz
Reverse Recovery Time	t_{rr}			5	ns	I_F=I_R=10mA I_{rr}=0.1XI_R,R_L=100Ω

TYPICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

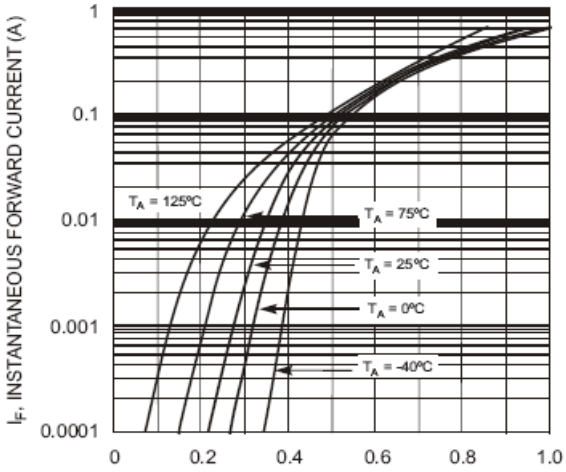


Fig. 1 Forward Characteristics

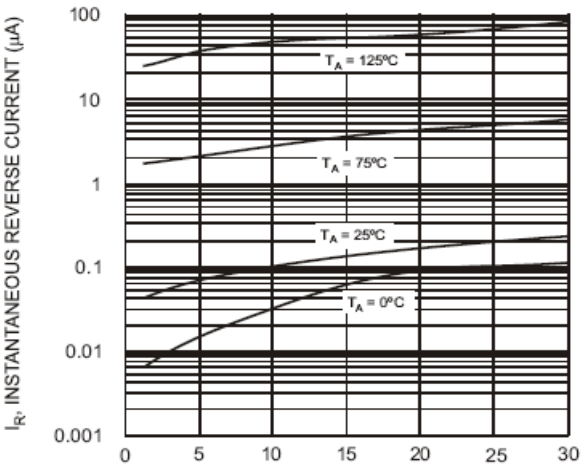


Fig. 2 Typical Reverse Characteristics

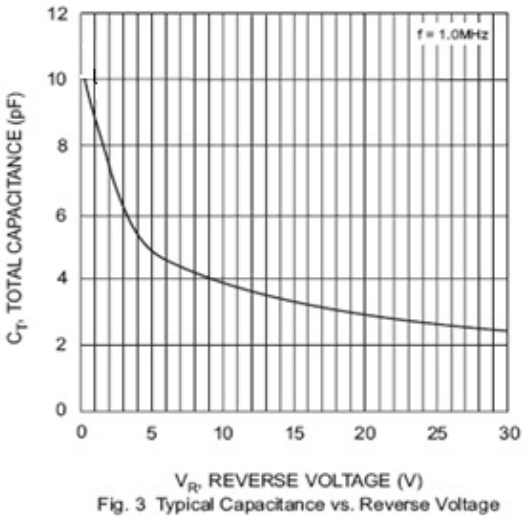


Fig. 3 Typical Capacitance vs. Reverse Voltage

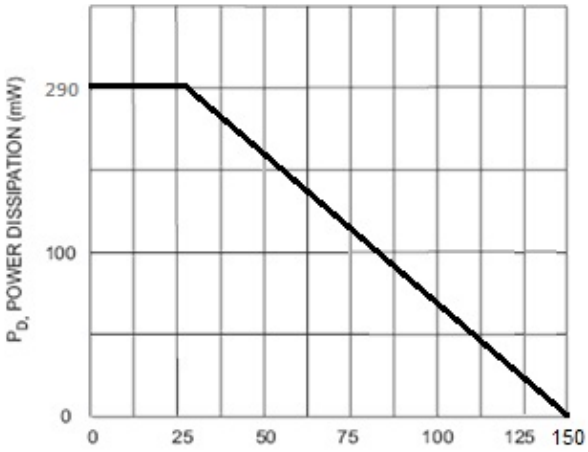
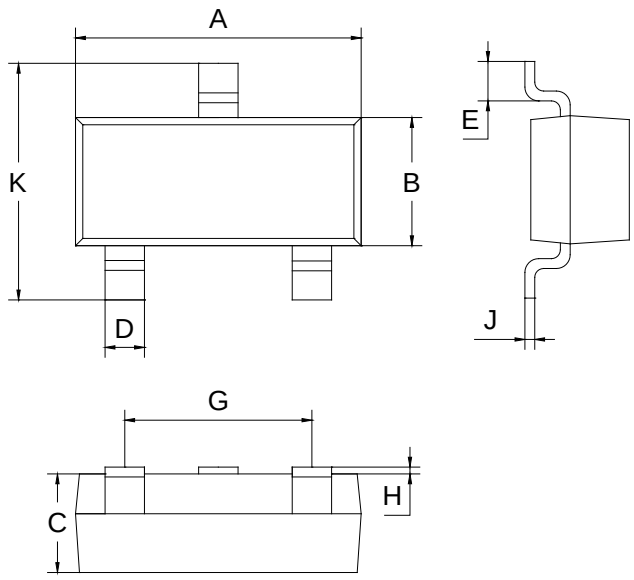


Fig. 4 Power Derating Curve

BAR43/A/C/S

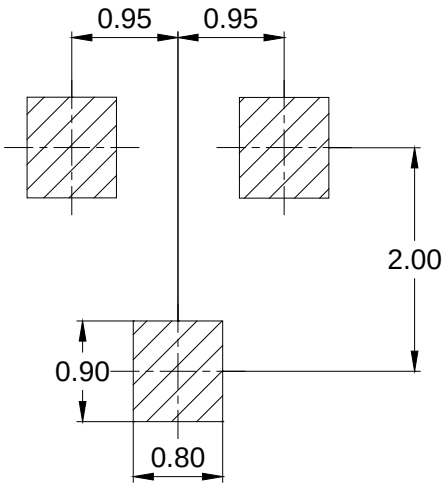
Small Signal Schottky Barrier Diode

PACKAGE OUTLINE



SOT-23		
Dim	Min	Max
A	2.70	3.10
B	1.10	1.50
C	0.90	1.10
D	0.30	0.50
E	0.35	0.48
G	1.80	2.00
H	0.02	0.10
J	0.05	0.15
K	2.20	2.60
All Dimensions in mm		

SOLDERING FOOTPRINT



Unit: mm

PACKAGE INFORMATION

Device	Package	Shipping
BAR43/A/C/S	SOT-23	3000/Tape&Reel