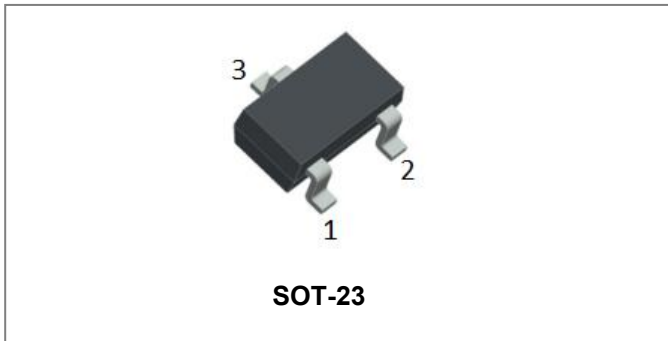
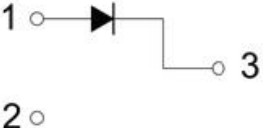
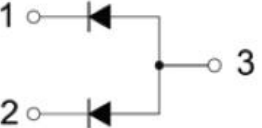
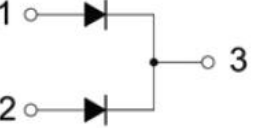
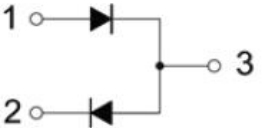
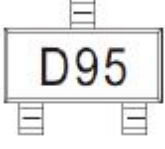
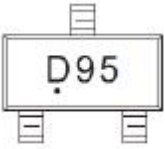
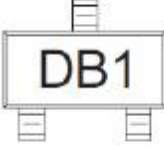




BAR43/A/C/S SCHOTTKY BARRIER DIODE



Features

- Low Current Leakage
- For General Purpose Switching Applications
- This is a Pb - Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

BAR43	BAR43A	BAR43C	BAR43S
			
MARKING: D95	MARKING: DB1	MARKING: DB2	MARKING: DA5
 			

Solid dot = Green molding compound device, if none, the normal device.

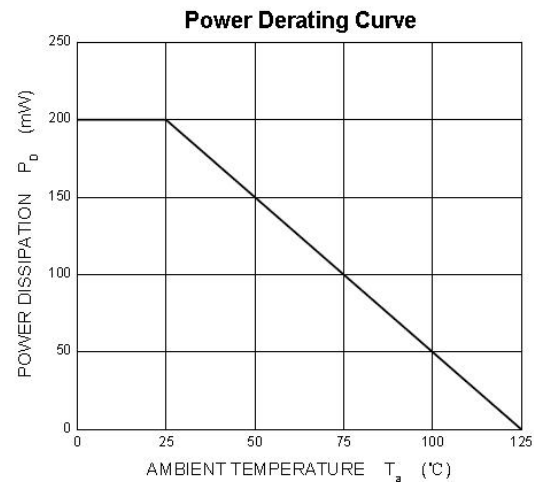
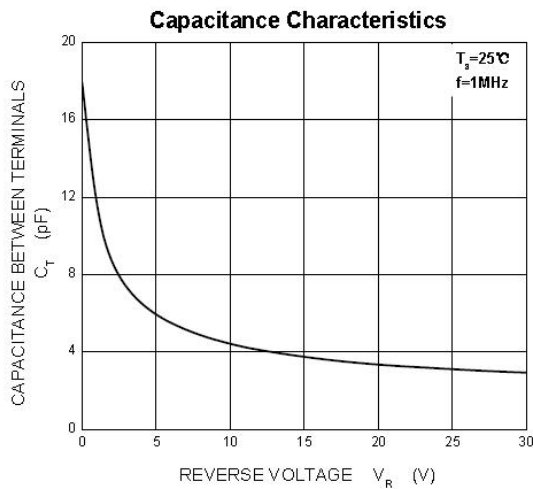
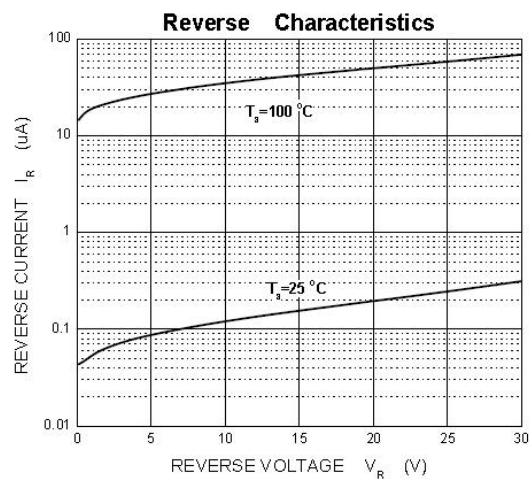
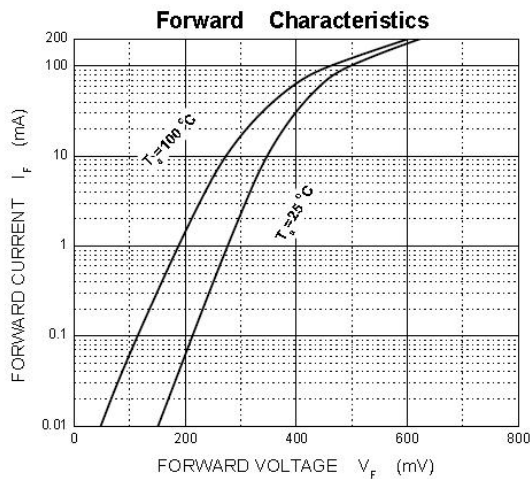
Maximum Ratings@ $T_A=25^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Limit	Units
Peak Repetitive Reverse Voltage	V_{RRM}	30	V
Working Peak Reverse Voltage	V_{RWM}		
RMS Reverse Voltage	$V_{R(RMS)}$	21	V
Forward Current	I_F	200	mA
Non-repetitive Peak Forward Surge Current @ $t=8.3\text{ms}$	I_{FSM}	0.75	A
Power Dissipation	P_D	200	mW
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	500	$^\circ\text{C/W}$
Junction Temperature	T_j	125	$^\circ\text{C}$
Storage Temperature	T_{stg}	-55~+150	$^\circ\text{C}$

Electrical Characteristics @ $T_A=25^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Test conditions	Min	Max	Units
Reverse breakdown voltage*	$V_{(BR)}$	$I_R=100\mu\text{A}$	30	-	V
Reverse voltage leakage current*	I_{R2}	$V_R=25\text{V}$	-	0.5	μA
Forward voltage*	V_F	$I_F=2\text{mA}$	0.26	0.33	mV
		$I_F=15\text{mA}$	-	0.45	
		$I_F=100\text{mA}$	-	0.8	
Reverse recovery time	T_{rr}	$I_F=I_R=10\text{mA}, I_{rr}=0.1\times I_R, R_L=100\Omega$	-	5	ns

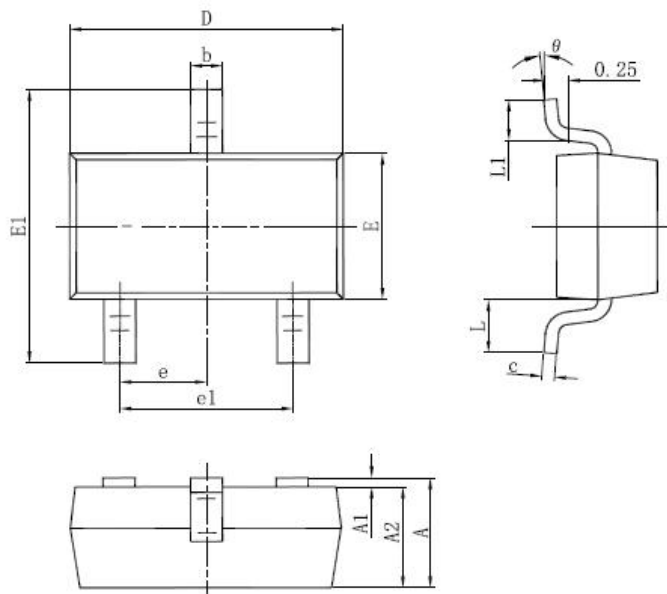
* Pulse width < 300 μs , duty cycle < 2%

Ratings and Characteristics Curves


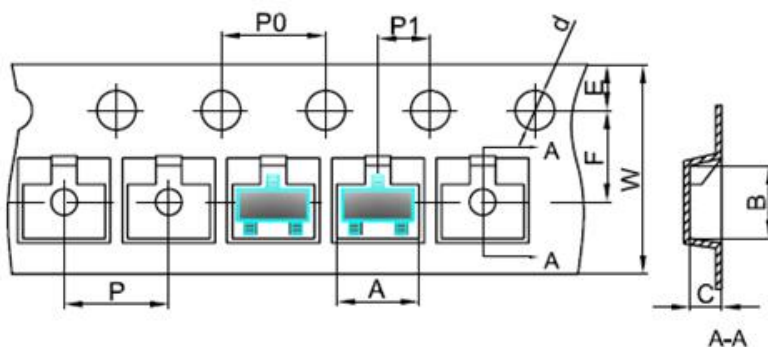
Ordering Information

Device	Package	Shipping
BAR43/A/C/S	SOT-23(Pb-Free)	3000pcs / reel

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

Mechanical Dimensions SOT-23


SYMBOL	Millimeters		Inches	
	MIN.	MAX.	MIN.	MAX.
A	0.890	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.076	0.170	0.003	0.007
D	2.650	3.050	0.104	0.120
E	1.190	1.400	0.047	0.055
E1	2.100	2.550	0.083	0.100
e	0.950 TYP.		0.037 TYP.	
e1	1.780	2.050	0.070	0.081
L	0.550 REF.		0.022 REF.	
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°

Carrier Tape Specification SOT-23


SYMBOL	Millimeters	
	Min.	Max.
A	3.05	3.25
B	2.67	2.87
C	1.12	1.32
d	1.40	1.60
E	1.65	1.85
F	3.40	3.60
P	3.90	4.10
P0	3.90	4.10
P1	1.90	2.10
W	7.90	8.30



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