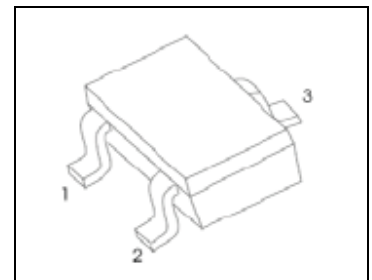
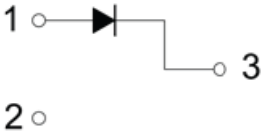
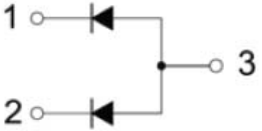
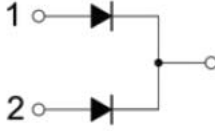
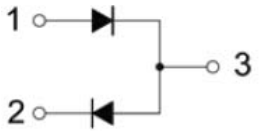

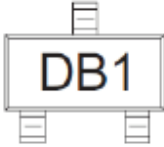
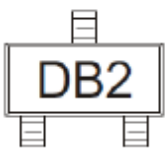
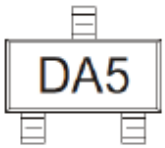


**BAR43/A/C/S SCHOTTKY BARRIER DIODE**

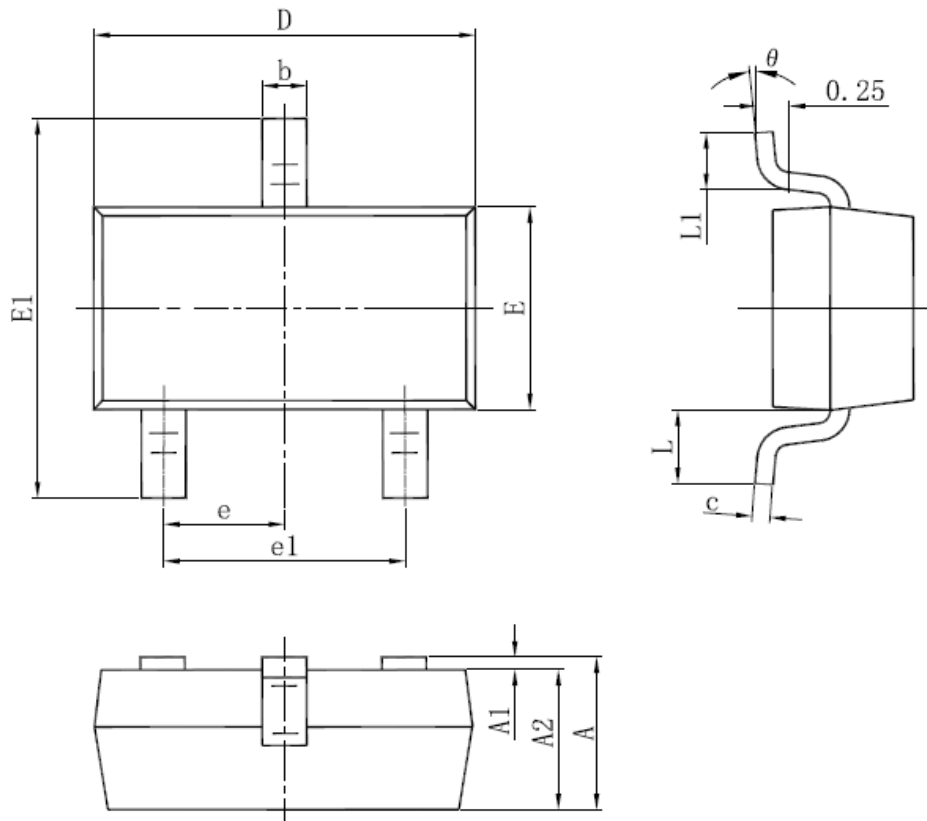
**Features:**

- Low Current Leakage
- For General Purpose Switching Applications



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

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

**Technical Data**  
**Data Sheet N1747, Rev. -**
**Mechanical Dimensions: In mm/Inches**


Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	0.900	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	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
e	0.950 TYP.		0.037 TYP.	
e1	1.800	2.000	0.071	0.079
L	0.550 REF.		0.022 REF.	
L1	0.300	0.500	0.012	0.020
$\theta$	0°	8°	0°	8°

**SOT-23**

- China - Germany - Korea - Singapore - United States •
- <http://www.smc-diodes.com> - [sales@smc-diodes.com](mailto:sales@smc-diodes.com) •

**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.

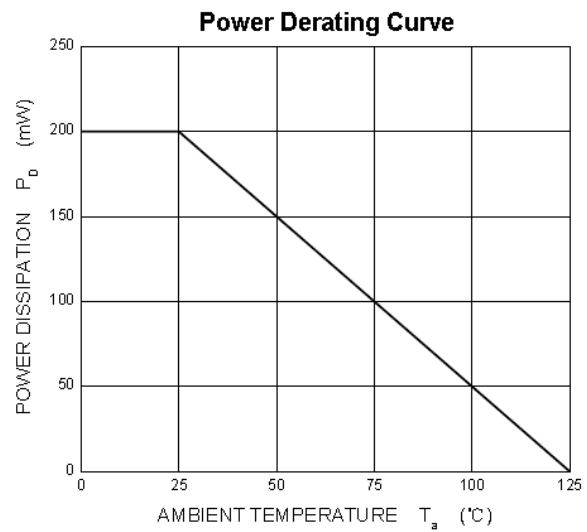
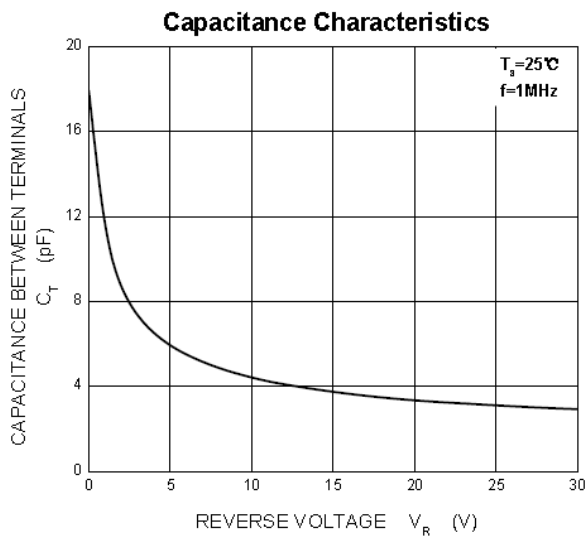
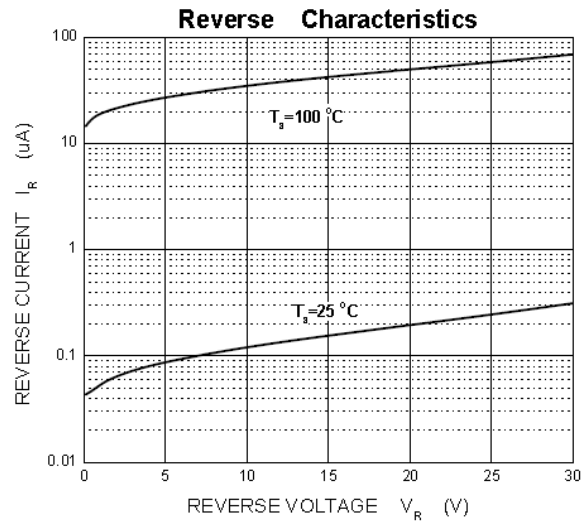
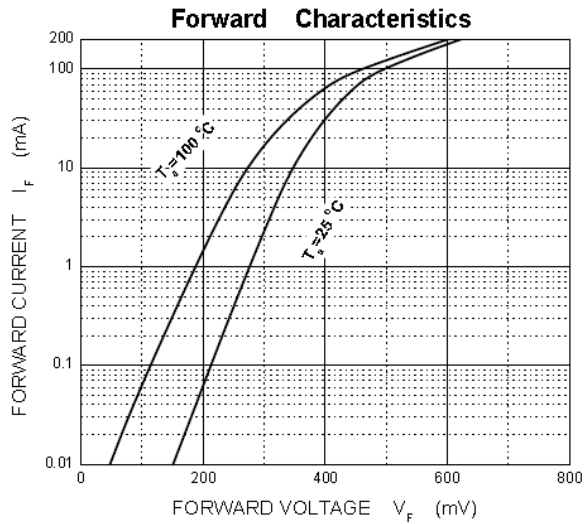
**Maximum Ratings @ $T_A=25^\circ\text{C}$  unless otherwise specified**

Parameter	Symbol	Limit	Unit
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	$^\circ\text{C}/\text{W}$
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	Unit
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	$\mu\text{A}$
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

**Technical Data**  
**Data Sheet N1747, Rev. -**





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