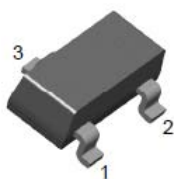
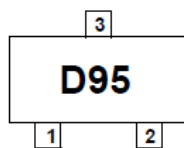


# BAR43/A/C/S Schottky Diodes



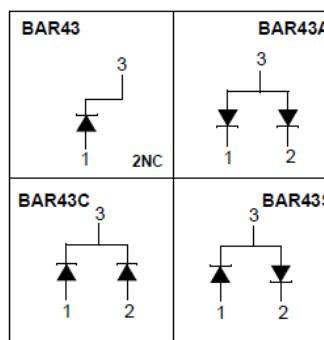
SOT-23



MARKING

BAR43 D95 BAR43A DB1  
BAR43C DB2 BAR43S DA5

### Connection Diagram



### Absolute Maximum Ratings\* $T_A=25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Value	Units
$V_{RRM}$	Maximum Repetitive Reverse Voltage	30	V
$I_{F(AV)}$	Average Rectified Forward Current	200	mA
$I_{FSM}$	Non Repetitive Peak Forward Current Pulse Width = 1.0 second	750	mA
$T_J$	Operating Junction Temperature	150	$^\circ\text{C}$
$T_{STG}$	Storage Temperature Range	-55 to +150	$^\circ\text{C}$

\*These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

### Thermal Characteristics $T_A=25^\circ\text{C}$ unless otherwise noted

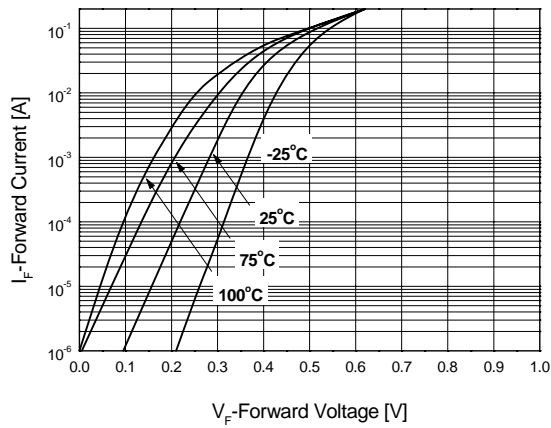
Symbol	Parameter	Value	Units
$P_D$	Power Dissipation	290	mW
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient	430	$^\circ\text{C/W}$

**Electrical Characteristics**  $T_A=25^\circ\text{C}$  unless otherwise noted

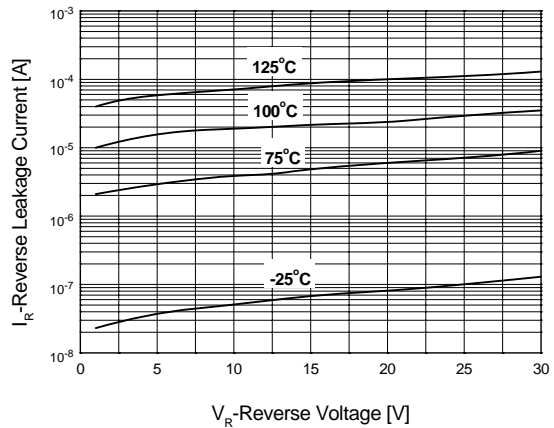
Symbol	Parameter	Test Conditions	Min.	Max.	Units
$V_R$	Breakdown Voltage	$I_R = 100\mu\text{A}$	30		V
$V_F$	Forward Voltage	$I_F = 2.0\text{mA}$ $I_F = 15\text{mA}$ $I_F = 100\text{mA}$	260	330 450 0.8	mV mV V
$I_R$	Reverse Leakage	$V_R = 25\text{V}$ $V_R = 25\text{V}, T_A=100^\circ\text{C}$		0.5 100	$\mu\text{A}$
$t_{rr}$	Reverse Recovery Time	$I_F = I_R = 100\text{mA}, I_{RR} = 1.0\text{mA}$ $R_L = 100\Omega$		5.0	ns
Minimum Detection Recovery Time $I_F = I_R = 100\text{mA}, I_{RR} = 1.0\text{mA}, R_L = 100\Omega$			80%		

**Typical Performance Characteristics**

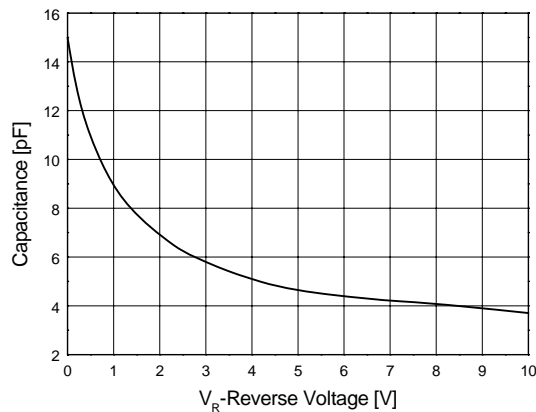
**Figure 1. Forward Voltage vs Temperature**



**Figure 2. Reverse Leakage Current vs Temperature**








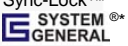
**Figure 3. Capacitance vs Reverse Bias Voltage**





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| Auto-SPM™   | F-PFS™  | PowerXS™  | the   |
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| CorePLUS™   | Global Power Resource <sup>SM</sup>   | QFET®   | franchise   |
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| CROSSVOLT™  | Green FPS™ e-Series™  | Quiet Series™   | TinyBuck™   |
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