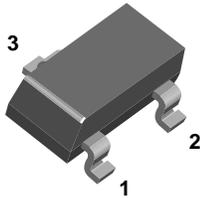
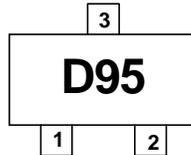


# BAR43/A/C/S

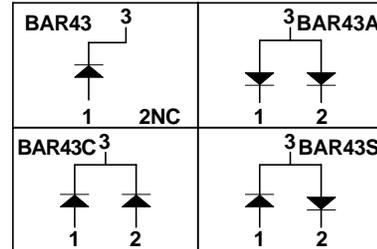


SOT-23



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

### Connection Diagrams



## Schottky Diodes

### 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 Surge Current Pulse Width = 1.0 second	750	mA
$T_{stg}$	Storage Temperature Range	-55 to +150	$^\circ\text{C}$
$T_J$	Operating Junction Temperature	150	$^\circ\text{C}$

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

\*\*Mounted on ceramic substrate 10mm x 8mm x 0.6mm.

### Thermal Characteristics

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

### 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 1.0	mV mV V
$I_R$	Reverse Current	$V_R = 25 \text{ V}$ $V_R = 25 \text{ V}, T_A = 100^\circ\text{C}$		0.5 100	$\mu\text{A}$ $\mu\text{A}$
$t_{rr}$	Reverse Recovery Time	$I_F = I_R = 10 \text{ mA}, I_{RR} = 1.0 \text{ mA},$ $R_L = 100 \Omega$		5.0	ns
	Minimum Detection Recovery Time	$I_F = I_R = 10 \text{ mA}, I_{RR} = 1.0 \text{ mA},$ $R_L = 100 \Omega$		80%	

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FACT <sup>TM</sup>	MicroPak <sup>TM</sup>	Quiet Series <sup>TM</sup>	UHC <sup>TM</sup>	
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## PRODUCT STATUS DEFINITIONS

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