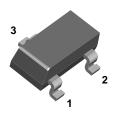
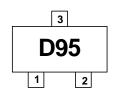


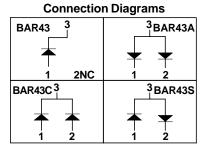
## **BAR43/A/C/S**



SOT-23



MARKING
BAR43 D95 BAR43A DB1
BAR43C DB2 BAR43S DA5



### **Schottky Diodes**

# $\begin{tabular}{lll} \textbf{Absolute Maximum Ratings*} & $T_A = 25^{\circ}$C unless otherwise noted \end{tabular}$

Symbol	Parameter	Value	Units
$V_{RRM}$	Maximum Repetitive Reverse Voltage	30	V
I <sub>F(AV)</sub>	Average Rectified Forward Current	200	mA
I <sub>FSM</sub>	Non-repetitive Peak Forward Surge Current Pulse Width = 1.0 second	750	mA
T <sub>stg</sub>	Storage Temperature Range	-55 to +150	°C
T <sub>J</sub>	Operating Junction Temperature	150	°C

 $<sup>{}^{\</sup>textstyle \star} \text{These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.}$ 

### **Thermal Characteristics**

Symbol	Parameter	Value	Units
$P_{D}$	Power Dissipation	290	mW
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient	430	°C/W

### **Electrical Characteristics** T<sub>A</sub> = 25°C unless otherwise noted

Symbol	Parameter	Test Conditions	Min	Max	Units
$V_R$	Breakdown Voltage	$I_R = 100 \mu A$	30		V
V <sub>F</sub>	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 <sub>R</sub>	Reverse Current	$V_R = 25 \text{ V}$ $V_R = 25 \text{ V}, T_{\Delta} = 100^{\circ}\text{C}$		0.5 100	μΑ μΑ
t <sub>rr</sub>	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 $_{\rm F}$ = I $_{\rm R}$ = 10 mA, I $_{\rm RR}$ = 1.0 mA, R $_{\rm L}$ = 100 $\Omega$			80%	

<sup>\*\*</sup>Mounted on ceramic substrate 10mm x 8mm x 0.6mm.

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#### PRODUCT STATUS DEFINITIONS

#### **Definition of Terms**

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