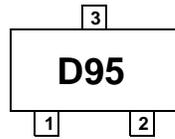
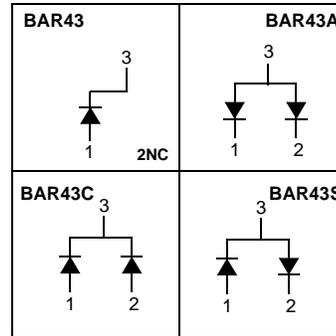


# BAR43/A/C/S Schottky Rectifiers



BAR43 D95 BAR43A DB1  
BAR43C DB2 BAR43S DA5

### Connection Diagram



### Absolute Maximum Ratings \* T<sub>a</sub> = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
V <sub>RRM</sub>	Maximum Repetitive Reverse Voltage	30	V
I <sub>F(AV)</sub>	Average Rectified Forward Current	200	mA
I <sub>F(SM)</sub>	Non Repetitive Peak Forward Current Pulse Width = 1.0 second	750	mA
T <sub>STG</sub>	Storage Temperature Range	-55 to +150	°C
T <sub>Jmax</sub>	Operating Junction Temperature	150	°C

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

### Thermal Characteristics

Symbol	Parameter	Value	Units
P <sub>D</sub>	Power Dissipation	290	mW
R <sub>θJA</sub>	Thermal Resistance, Junction to Ambient	430	°C/W

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

Symbol	Parameter	Test Conditions	Min.	Max.	Units
V <sub>R</sub>	Breakdown Voltage	I <sub>R</sub> = 100μA		30	V
V <sub>F</sub>	Forward Voltage	I <sub>F</sub> = 2.0mA	260	330	mV
		I <sub>F</sub> = 15mA		450	mV
		I <sub>F</sub> = 100mA		0.8	V
I <sub>R</sub>	Reverse Leakage	V <sub>R</sub> = 25V		0.5	μA
		V <sub>R</sub> = 25V, T <sub>a</sub> = 100°C		100	μA
t <sub>rr</sub>	Reverse Recovery Time	I <sub>F</sub> = I <sub>R</sub> = 100mA, I <sub>RR</sub> = 1.0mA R <sub>L</sub> = 100Ω		5.0	ns
	Minimum Detection Recovery Time	I <sub>F</sub> = I <sub>R</sub> = 100mA, I <sub>RR</sub> = 1.0mA, R <sub>L</sub> = 100Ω		80%	

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