imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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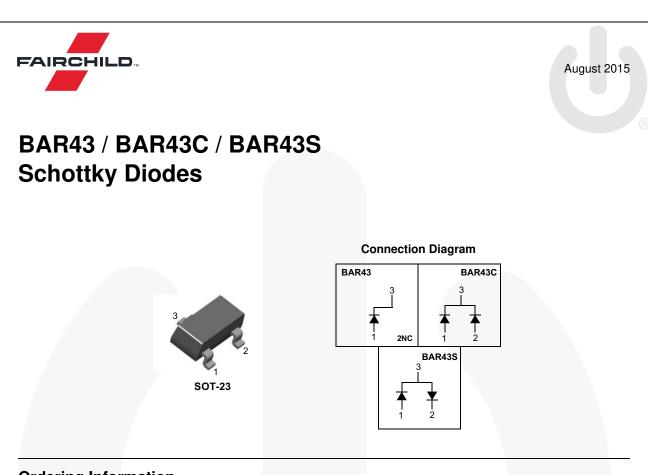
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Ordering Information

Part Number	Top Mark	Package	Packing Method
BAR43	D95	SOT-23 3L	Tape and Reel
BAR43C	DB2	SOT-23 3L	Tape and Reel
BAR43S	DA5	SOT-23 3L	Tape and Reel

Absolute Maximum Ratings

Stresses exceeding the absolute maximum ratings may damage the device. The device may not function or be operable above the recommended operating conditions and stressing the parts to these levels is not recommended. In addition, extended exposure to stresses above the recommended operating conditions may affect device reliability. The absolute maximum ratings are stress ratings only. Values are at $T_A = 25^{\circ}$ C unless otherwise noted.

Symbol	Parameter	Value	Unit
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	°C
TJ	Operating Junction Temperature	150	°C

Thermal Characteristics

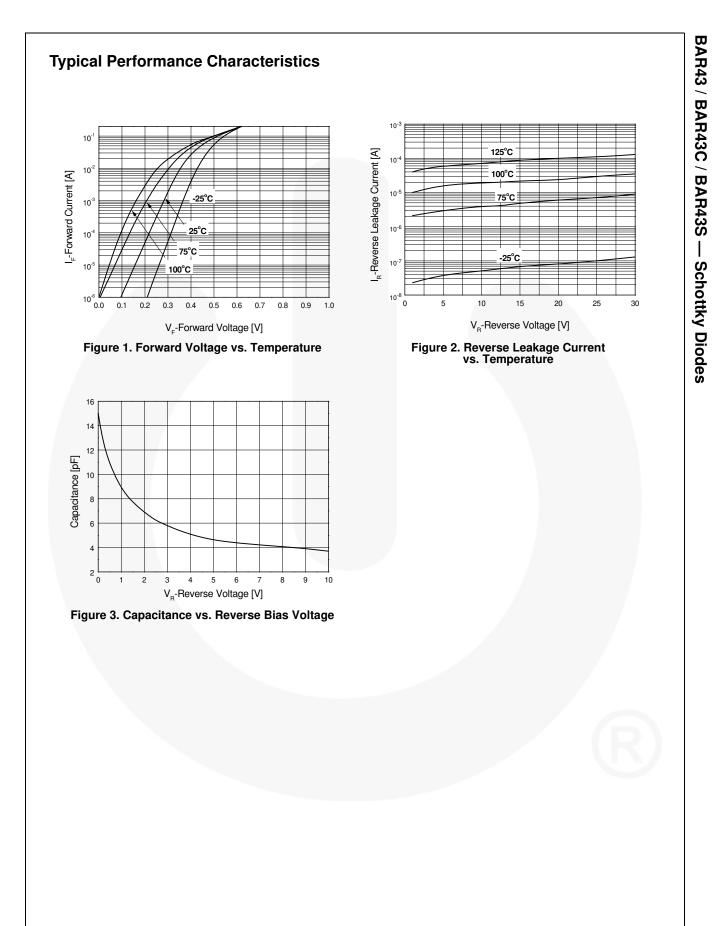
Values are at $T_A = 25^{\circ}C$ unless otherwise noted.

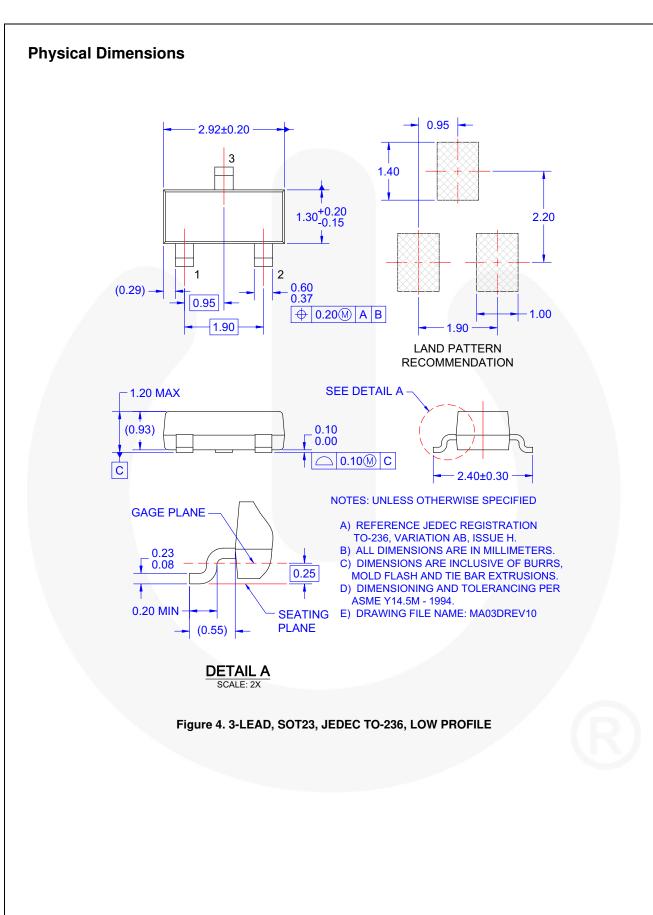
Symbol	Parameter	Value	Unit
PD	Power Dissipation	290	mW
R_{\thetaJA}	Thermal Resistance, Junction-to-Ambient	430	°C/W

Electrical Characteristics

Values are at $T_A = 25^{\circ}C$ unless otherwise noted.

Symbol	Parameter	Conditions	Min.	Max.	Unit
V _R	Breakdown Voltage	I _R = 100 μA	30		V
V _F	Forward Voltage	I _F = 2.0 mA	260	330	mV
		I _F = 15 mA		450	mV
		I _F = 100 mA		0.8	V
I _R Re	Reverse Current	V _R = 25 V		0.5	μA
		$V_{R} = 25 \text{ V}, \text{ T}_{A} = 100^{\circ}\text{C}$		100	
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 De	etection Recovery Time	$I_{F} = I_{R} = 10 \text{ mA}, I_{RR} = 1.0 \text{ mA}, \\ R_{L} = 100 \Omega$		80	%





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Preliminary	First Production	Datasheet contains preliminary data; supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve design.
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