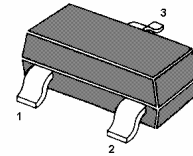
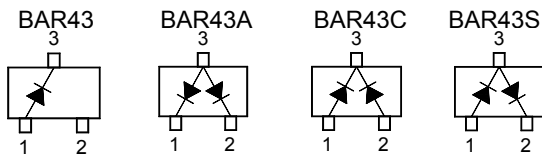


# BAR43 / A / C / S

## SCHOTTKY BARRIER DIODE



SOT-23 Plastic Package

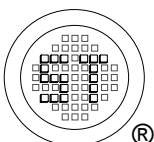
BAR43 Marking Code: RD  
 BAR43A Marking Code: RE  
 BAR43C Marking Code: RF  
 BAR43S Marking Code: RH

### Absolute Maximum Ratings ( $T_a = 25\text{ }^\circ\text{C}$ )

Parameter	Symbol	Value	Unit
Maximum Repetitive Reverse Voltage	$V_{RRM}$	30	V
Average Rectified Forward Current	$I_{F(AV)}$	200	mA
Non-repetitive Peak Forward Surge Current at ( $t = 1\text{ s}$ )	$I_{FSM}$	750	mA
Power Dissipation	$P_{tot}$	290	mW
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	430	$^\circ\text{C/W}$
Operating Junction Temperature	$T_J$	150	$^\circ\text{C}$
Storage Temperature Range	$T_S$	- 55 to + 150	$^\circ\text{C}$

### Characteristics at $T_a = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 100\text{ }\mu\text{A}$	$V_{(BR)R}$	30	-	V
Reverse Current at $V_R = 25\text{ V}$	$I_R$	-	500	nA
Forward Voltage at $I_F = 2\text{ mA}$ at $I_F = 15\text{ mA}$ at $I_F = 100\text{ mA}$	$V_F$	0.26 - -	0.33 0.45 0.8	V
Reverse Recovery Time at $I_F = I_R = 10\text{ mA}$ , $I_{RR} = 1\text{ mA}$ , $R_L = 100\text{ }\Omega$	$t_{rr}$	-	5	ns



**SEMTECH ELECTRONICS LTD.**

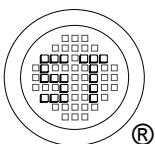
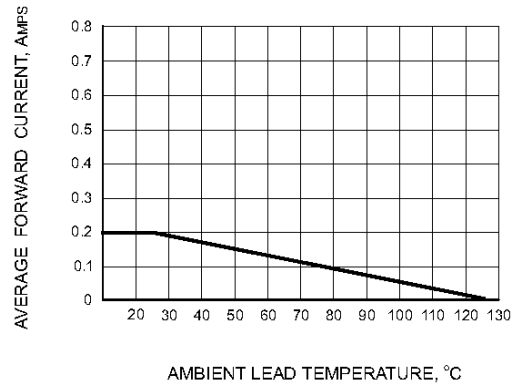
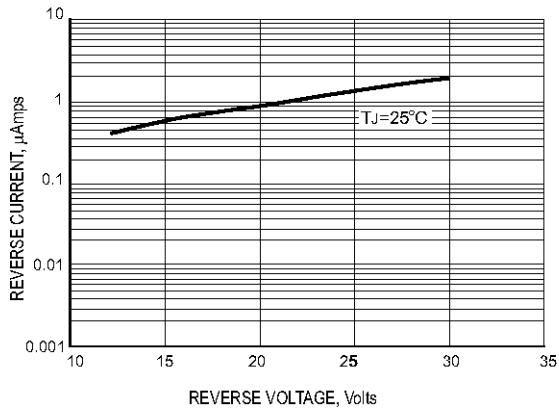
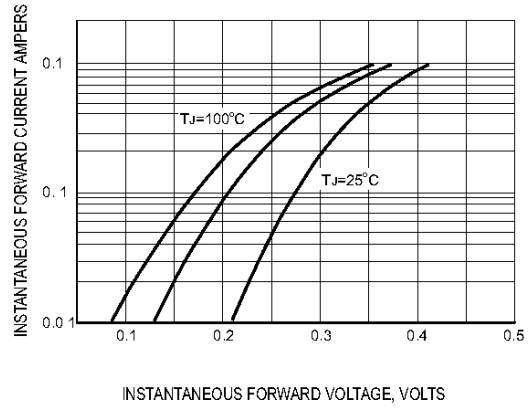
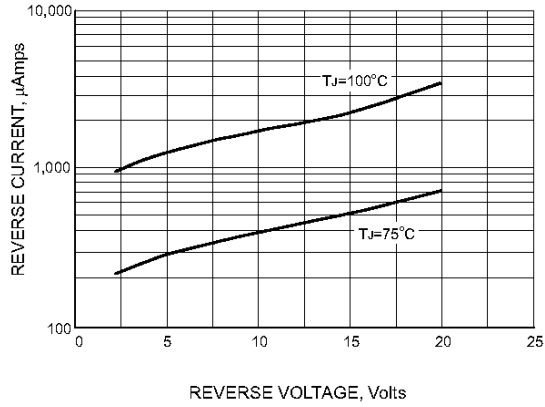
(Subsidiary of Sino-Tech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)



ISO/TS 16949 : 2002 Certificate No. 05103  
 ISO 14001:2004 Certificate No. 7116  
 ISO 9001:2000 Certificate No. 0506098

Dated : 10/09/2006

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