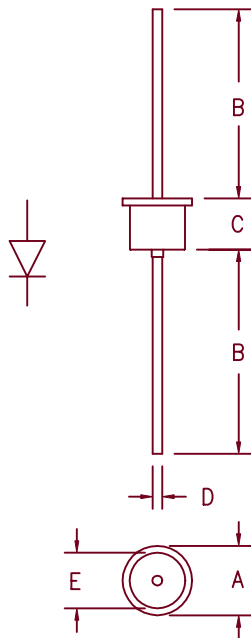


5 Amp Schottky Rectifier 1N5823, 1N5824, 1N5825



Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	---	.450	---	11.43	Dia.
B	.980	---	24.89	---	
C	---	.300	---	7.62	
D	.046	.056	1.17	1.42	Dia.
E	---	.350	---	8.89	Dia.

Microsemi Catalog Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage	
1N5823	20V	20V	• Schottky Barrier Rectifier • 125°C Junction temperature • V_{RRM} 20 to 40 Volts • 5 Amp current rating • Very low forward voltage • JAN, JANTX, JANTXV & JANS equivalent screening available
1N5824	30V	30V	
1N5825	40V	40V	

Electrical Characteristics

		1N5823	1N5824	1N5825	
Average forward current	$I_F(AV)$	5.0A	5.0A	5.0A	$T_L = 85^\circ C$, square wave, $R_{\theta JL} = 12^\circ C/W$
Maximum surge current	I_{FSM}	500A	500A	500A	8.3ms, half sine, $T_J = 125^\circ C$
Max peak forward voltage	V_{FM}	.330V	.340V	.350V	$I_{FM} = 3.0A$; $T_J = 25^\circ C^*$
Max peak forward voltage	V_{FM}	.360V	.370V	.380V	$I_{FM} = 5.0A$; $T_J = 25^\circ C^*$
Max peak forward voltage	V_{FM}	.470V	.490V	.520V	$I_{FM} = 15.7A$; $T_J = 25^\circ C^*$
Max peak reverse current	I_{RM}	10mA	10mA	10mA	$V_{RRM}, T_J = 25^\circ C$
Max peak reverse current	I_{RM}	100mA	125mA	150mA	$V_{RRM}, T_J = 100^\circ C$
Typical junction capacitance	C_J	1470pF	1470pF	1470pF	$V_R = 5.0V, T_J = 25^\circ C$

*Pulse test: Pulse width 300 μ sec, Duty cycle 2%

Thermal and Mechanical Characteristics

Storage temperature range	T_{STG}	-65°C to 125°C
Operating junction temp range	T_J	-65°C to 125°C
Maximum thermal resistance	$L = 1/4"$ $R_{\theta JL}$	12°C/W Junction to lead
Weight		.08 ounces (2.4 grams) typical

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3-7-00 Rev. 1

1N5823, 1N5824, 1N5825

Figure 1
Typical Forward Characteristics

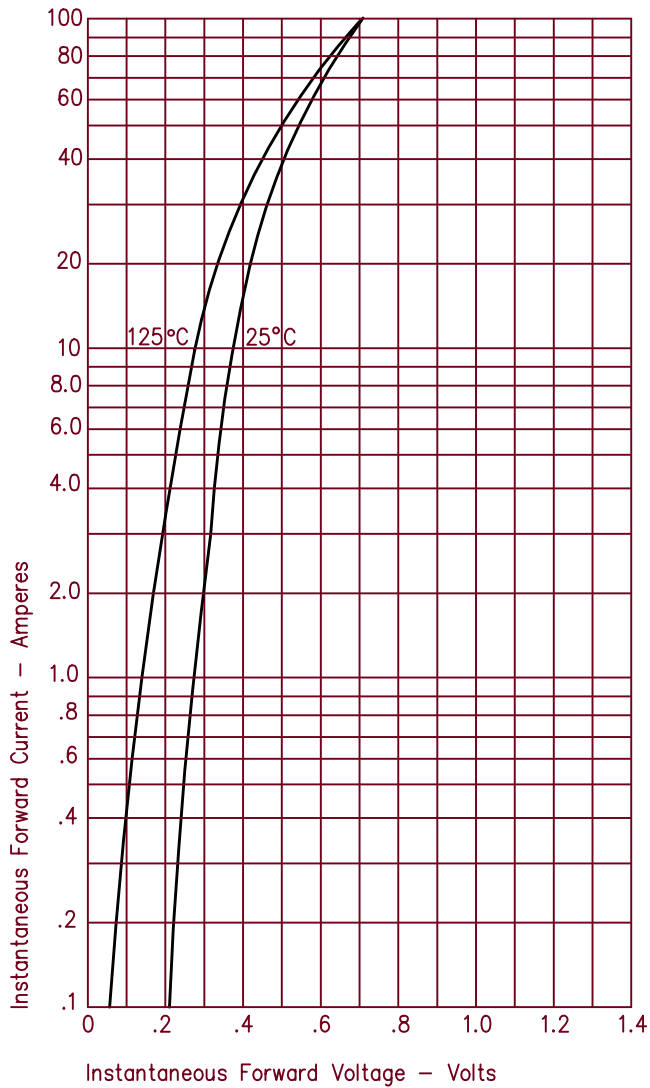


Figure 3
Typical Junction Capacitance

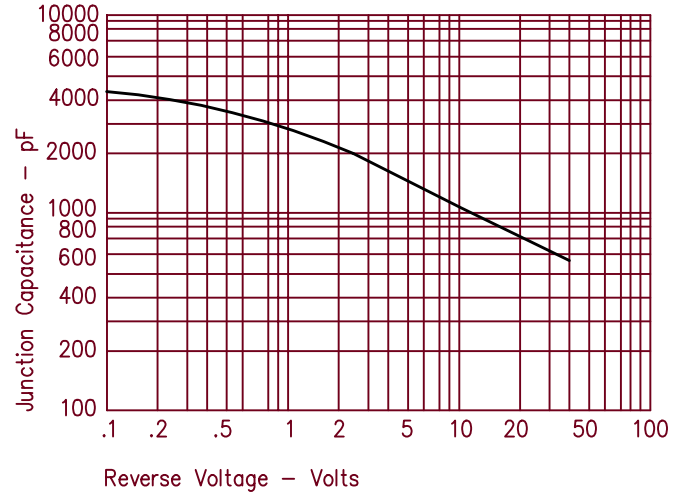


Figure 2
Typical Reverse Characteristics

