



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!



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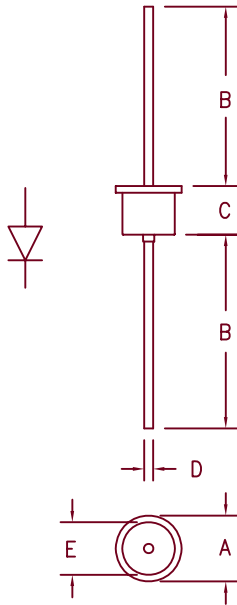
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5 Amp Schottky Rectifier

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
1N5824	30V	30V
1N5825	40V	40V

- 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

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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Figure 1
Typical Forward Characteristics

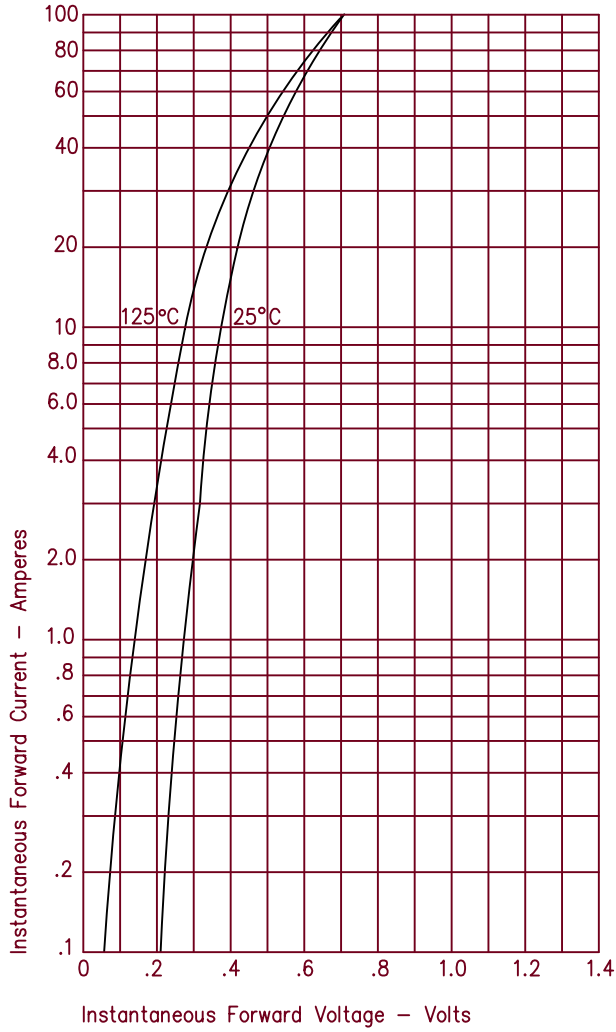


Figure 3
Typical Junction Capacitance

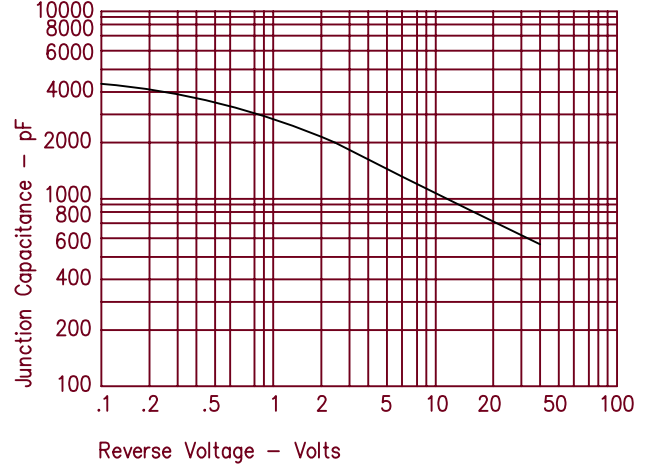


Figure 2
Typical Reverse Characteristics

