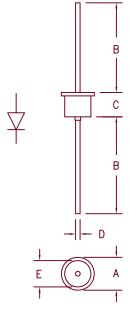
5 Amp Schottky Rectifier 1N5823, 1N5824, 1N5825



Dim	. Inches		Millimeter			
	Minimum	Maximum	Minimum	Maximum	Notes	
Α		.450		11.43	Dia.	
В	.980		24.89			
С		.300		7.62		
D	.046	.056	1.17	1.42	Dia.	
Ε		.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
- VRRM 20 to 40 Volts
- 5 Amp current rating
- Very low forward voltage
- JAN, JANTX, JANTXV & JANS equivalent screening available

		Electrical	Charact	eristics	
Average forward current Maximum surge current Max peak forward voltage Max peak forward voltage Max peak forward voltage Max peak reverse current Max peak reverse current Typical junction capacitance	F(AV) FSM V FM V FM RM RM C J	1N5823 5.0A 500A .330V .360V .470V 10mA 100mA 1470pF	1N5824 5.0A 500A .340V .370V .490V 10mA 125mA 1470pF	1N5825 5.0A 500A .350V .380V .520V 10mA 150mA 1470pF	TL = 85°C, square wave, ROJL = 12°C/W 8.3ms, half sine, TJ = 125°C IFM = 3.0A: TJ = 25°C* IFM = 5.0A: TJ = 25°C* IFM = 15.7A: TJ = 25°C* VRRM, TJ = 25°C VRRM, TJ = 100°C VR = 5.0V, TJ = 25°C
	*Pulse test	: Pulse width	300 µsec,	Duty cycle	2%

Thermal and Mechanical Characteristics				
Storage temperature range TSTG Operating junction temp range Maximum thermal resistance $L = 1/4^{"} R \theta JL$ Weight	-65°C to 125°C -65°C to 125°C 12°C/W Junction to lead .08 ounces (2.4 grams) typical			

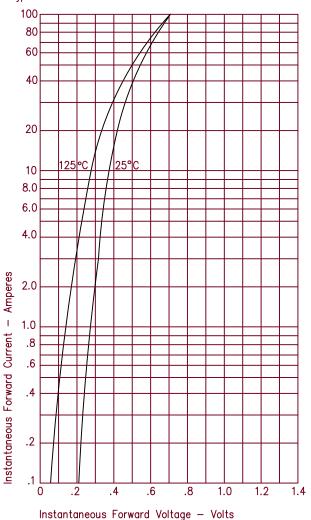


1N5823, 1N5824, 1N5825

Figure 3

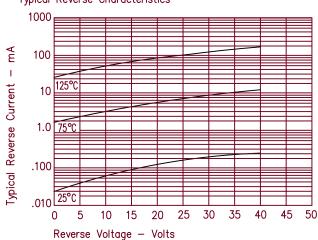
Typical Junction Capacitance





6000 4000 뇹 2000 Junction Capacitance 1000 800 600 400 200 100 .2 .5 2 10 20 50 100 Reverse Voltage - Volts





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1N5825 1N5823 1N5824 1N5825e3 1N5824E3