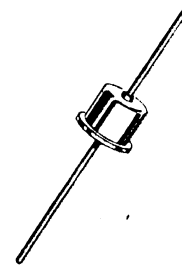


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**1N5823, 1N5824
1N5825
MBR5825,H, H1**



**SCHOTTKY BARRIER
RECTIFIERS**

**5 AMPERE
20, 30, 40 VOLTS**

*MAXIMUM RATINGS

Rating	Symbol	1N5823	1N5824	1N5825 MBR5825H, H1	Unit
Peak Repetitive Reverse Voltage	VRRM				
Working Peak Reverse Voltage	VRWM	20	30	40	Volts
DC Blocking Voltage	VR				
Non-Repetitive Peak Reverse Voltage	VRSM	24	36	48	Volts
RMS Reverse Voltage	VR(RMS)	14	21	28	Volts
Average Rectified Forward Current VR(equiv) ≤ 0.2 VR (dc), TC = 75°C VR(equiv) ≤ 0.2 VR (dc), TL = 80°C RθJA = 25°C/W, P.C. Board Mounting. See Note 3)	IO				Amp
Ambient Temperature Rated VR (dc), PF(AV) = 0 RθJA = 25°C/W	TA	65	60	55	°C
Non-Repetitive Peak Surge Current (Surge applied at rated load conditions, halfwave, single phase 60 Hz)	IFSM	500 (for 1 cycle)			Amp
Operating and Storage Junction Temperature Range (Reverse Voltage applied)	TJ, Tstg	-65 to +125			°C
Peak Operating Junction Temperature (Forward Current Applied)	TJ(pk)	150			°C

*THERMAL CHARACTERISTICS

Characteristic	Symbol	Max	Unit
Thermal Resistance, Junction to Case	RθJC	30	°C/W

*ELECTRICAL CHARACTERISTICS (TC = 25°C unless otherwise noted)

Characteristic	Symbol	1N5823	1N5824	1N5825 MBR5825H, H1	Unit
Maximum Instantaneous Forward Voltage (1) (IF = 3.0 Amp) (IF = 5.0 Amp) (IF = 15.7 Amp)	VF	0.330 0.360 0.470	0.340 0.370 0.490	0.350 0.380 0.520	Volts
Maximum Instantaneous Reverse Current @ rated dc Voltage TC = 25°C TC = 100°C	IR	10 75	10 75	10 75	mA

(1) Pulse Test: Pulse Width = 300 μs, Duty Cycle = 2.0% *Indicates JEDEC Registered Data for 1N5823-1N5825



Quality Semi-Conductors