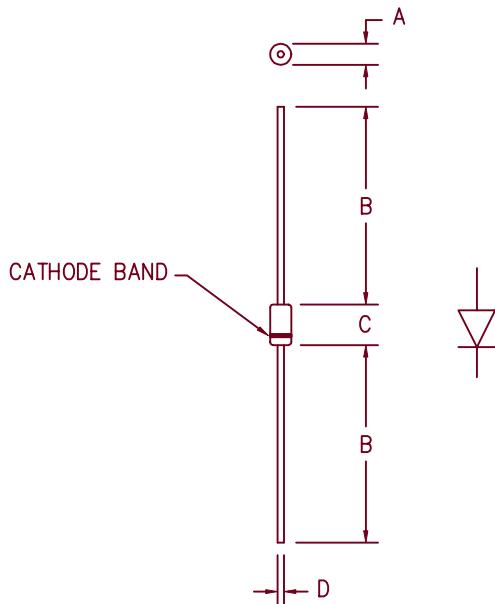


8 Amp Schottky Rectifier

MS830 — MS845



Dim.	Inches		Millimeter		
	Minimum	Maximum	Minimum	Maximum	Notes
A	.188	.260	4.78	6.50	Dia.
B	1.00	---	25.4	---	
C	.285	.375	7.24	9.52	
D	.046	.056	1.17	1.42	Dia.

PLASTIC D0201AD

Microsemi Catalog Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
MS830	30V	30V
MS835	35V	35V
MS840	40V	40V
MS845	45V	45V

- Schottky Barrier Rectifier
- Guard Ring Protection
- 175°C Junction Temperature
- High Current Capability
- V_{RRM} 30 to 45 Volts

Electrical Characteristics

Average forward current	I F(AV) 8.0 Amps	T _A = 130°C Square wave, R _{θJL} = 9.0°C/W, L = 3/8"
Maximum surge current	I F(AV) 400 Amps	8.3ms, half sine, T _J = 175°C
Max peak forward voltage	V _{FM} .47 Volts	I _{FM} = 8.0A; T _J = 150°C *
Max peak forward voltage	V _{FM} .62 Volts	I _{FM} = 8.0A; T _J = 25°C *
Max peak reverse current	I _{RM} 250 μ A	V _{RRM} , T _J = 25°C
Typical junction capacitance	C _J 660pF	V _R = 5.0V, T _J = 25°C

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

Thermal and Mechanical Characteristics

Storage temperature range	T _{STG}	-55°C to 175°C
Operating junction temp range	T _J	-55°C to 175°C
Maximum thermal resistance	L = 3/8" R _{θJL}	9.0°C/W Junction to lead
Weight		.032 ounces (1.0 grams) typical

MS830 - MS845

Figure 1
Typical Forward Characteristic

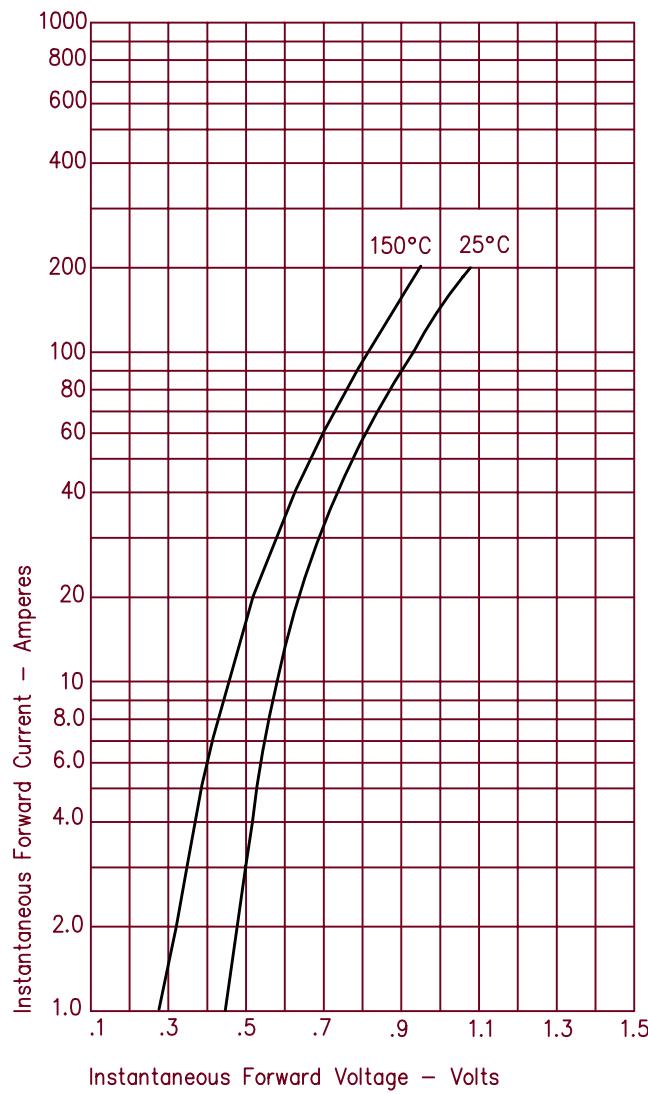


Figure 3
Typical Junction Capacitance

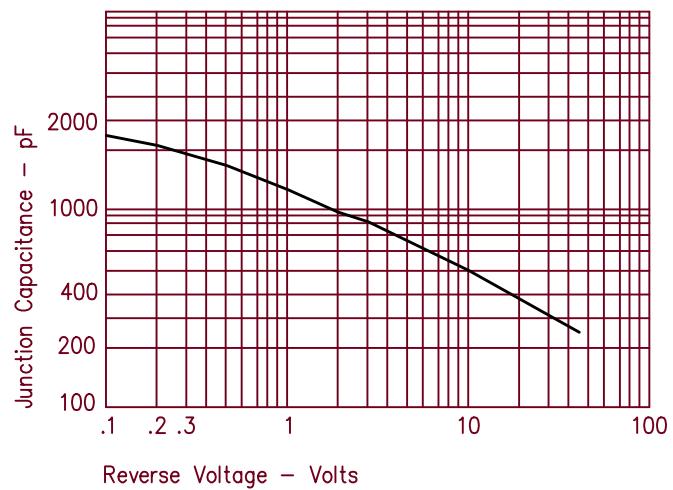


Figure 2
Typical Reverse Characteristics

