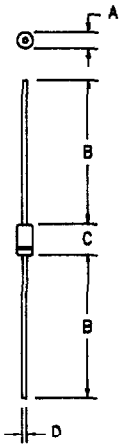
8 Amp Schottky Rectifier
MSP835, MSP845



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 DO201AD

Microsemi Catalog Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
MSP835	35V	35V
MSP845	45V	45V

- Schottky Barrier Rectifier
- Guard Ring Protection
- Low Forward Voltage
- 150°C Junction Temperature
- High Current Capability

Electrical Characteristics

Average forward current	$I_{F(AV)}$ 8.0 Amps	T_A = 112°C Square wave, $R_{\theta JL}$ = 9.0°C/W, L = 3/8"
Maximum surge current	$I_{F(AV)}$ 400 Amps	8.3 ms, half sine, T_J = 150°C
Max peak forward voltage	V_{FM} .40 Volts	I_{FM} = 8.0A; T_J = 150°C *
Max peak forward voltage	V_{FM} .52 Volts	I_{FM} = 8.0A; T_J = 25°C *
Max peak reverse current	I_{RM} 2 mA	V_{RRM}, T_J = 25°C
Typical junction capacitance	C_J 575 pF	V_R = 5.0V, T_J = 25°C

* Pulse test: Pulse width 300 μsec, Duty cycle 2%

Thermal and Mechanical Characteristics

Storage temperature range		T_{STG}	−40°C to 150°C
Operating junction temp range		T_J	−40°C to 150°C
Maximum thermal resistance	L = 3/8"	$R_{\theta JL}$	9.0°C/W Junction to Lead
Weight			.032 ounces (1.0 grams) typical

PH: 303-469-2161
FAX: 303-466-3775

Microsemi Corp.
Colorado

MSP835, MSP845

Figure 1
Typical Forward Characteristic

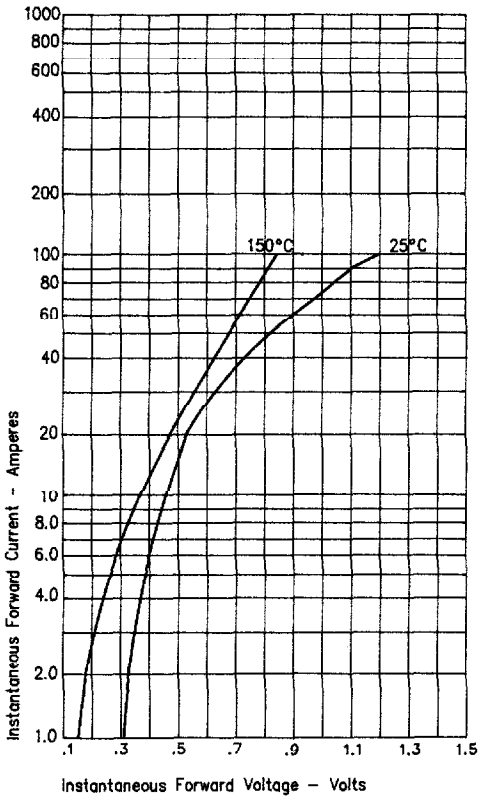


Figure 2
Typical Reverse Characteristics

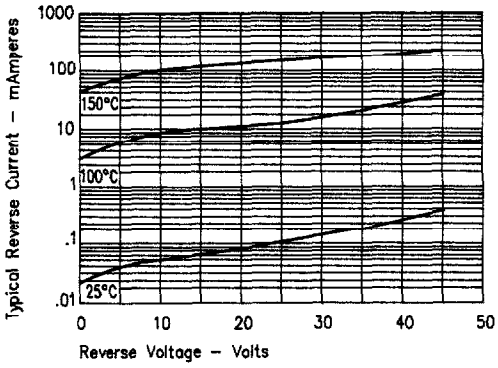


Figure 3
Typical Junction Capacitance

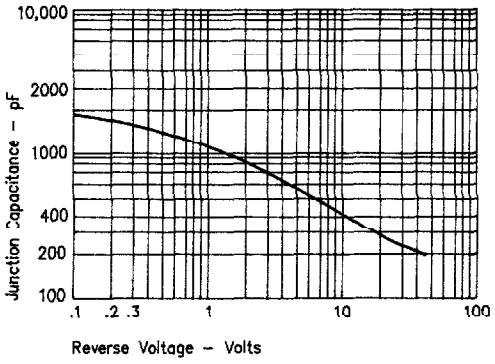


Figure 4
Forward Current Derating

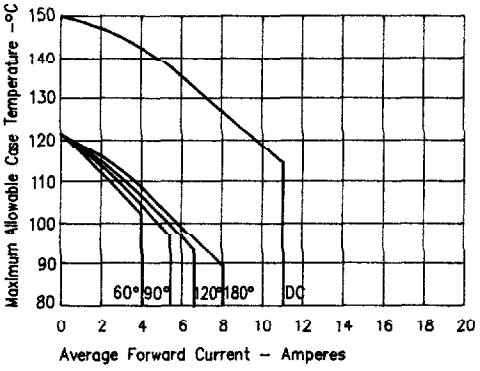


Figure 5
Maximum Forward Power Dissipation