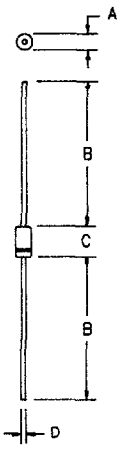
8 Amp Schottky Rectifier
MS880 – MS890



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
MS880	80V	80V
MS890	90V	90V

- Schottky Barrier Rectifier
- Guard Ring Protection
- 175°C Junction Temperature
- High Current Capability
- V_{RRM} 80 to 90 Volts

Electrical Characteristics

Average forward current	$I_{F(AV)}$ 8.0 Amps	T_A = 120°C Square wave, $R_{\theta JL}$ = 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} .59 Volts	I_{FM} = 8.0A; T_J = 175°C *
Max peak forward voltage	V_{FM} .77 Volts	I_{FM} = 8.0A; T_J = 25°C *
Max peak reverse current	I_{RM} 250 µA	V_{RRM}, T_J = 25°C
Typical junction capacitance	C_J 440pF	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 175°C
Operating junction temp range		T_J	−40°C to 175°C
Maximum thermal resistance	L = 3/8"	$R_{\theta JL}$	9.0°C/W *Junction to Lead*
Weight			.032 ounces (1.0 grams) typical

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Microsemi Corp.
Colorado

MS880 – MS890

Figure 1
Typical Forward Characteristics

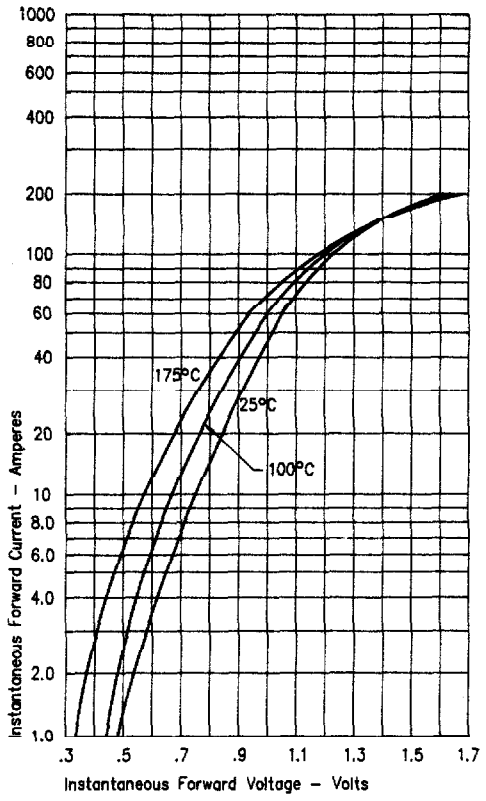

Figure 2
Typical Reverse Characteristics

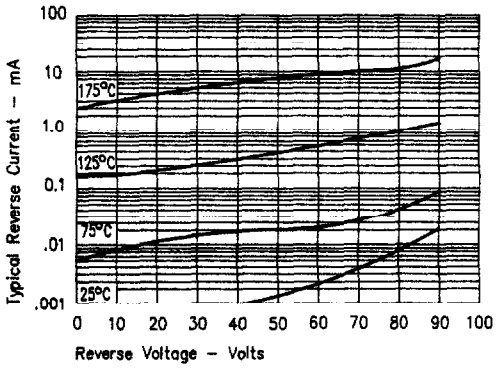

Figure 3
Typical Junctions Capacitance

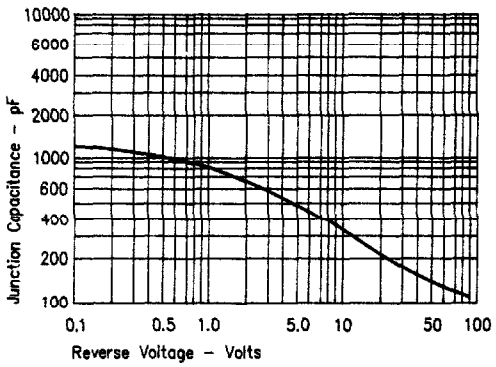

Figure 4
Forward Current Derating

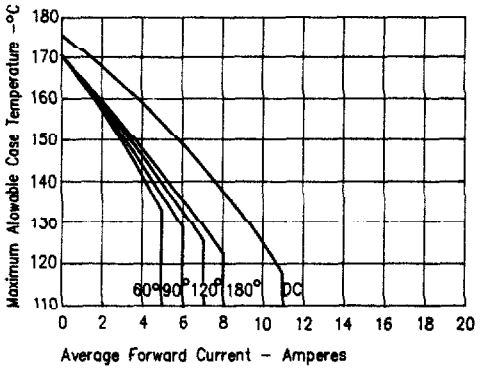

Figure 5
Maximum Forward Power Dissipation