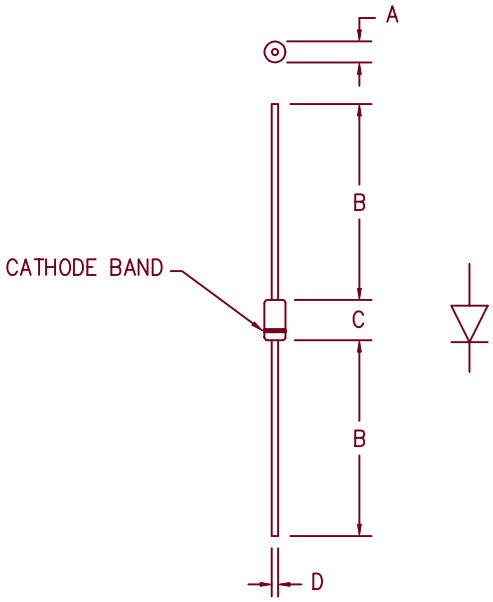
3 Amp Schottky Rectifier
MS304 – MS306



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	Industry Part Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
MS304	MBR340	40V	40V
MS305	MBR350	50V	50V
MS306	MBR360 SR306	60V	60V

- Schottky Barrier Rectifier
- Guard Ring Protection
- 175°C Junction Temperature
- V_{RRM} 40 to 60 Volts

Electrical Characteristics

Average forward current	$I_{F(AV)}$ 3.0 Amps	T_A = 115°C Square wave, $R_{\theta JL}$ = 52°C/W, L = 3/8"
Maximum surge current	I_{FSM} 150 Amps	8.3ms, half sine, T_J = 175°C
Max peak forward voltage	V_{FM} .62 Volts	I_{FM} = 3.0A; T_J = 25°C *
Max peak reverse current	I_{RM} 100 µA	V_{RRM}, T_J = 25°C
Typical junction capacitance	C_J 215 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}	−55°C to 175°C
Operating junction temp range	T_J	−55°C to 175°C
Maximum thermal resistance	$R_{\theta JC}$	28°C/W Junction to case
L = 0"	$R_{\theta JL}$	52°C/W Junction to lead
L = 3/8"		
Weight		.032 ounces (1.0 grams) typical

COLORADO Microsemi
800 Hoyt Street
Broomfield, CO. 80020
PH: (303) 469–2161
FAX: (303) 466–3775
www.microsemi.com

11–21–01 Rev. 3

MS304 – MS306

Figure 1
Typical Forward Characteristics

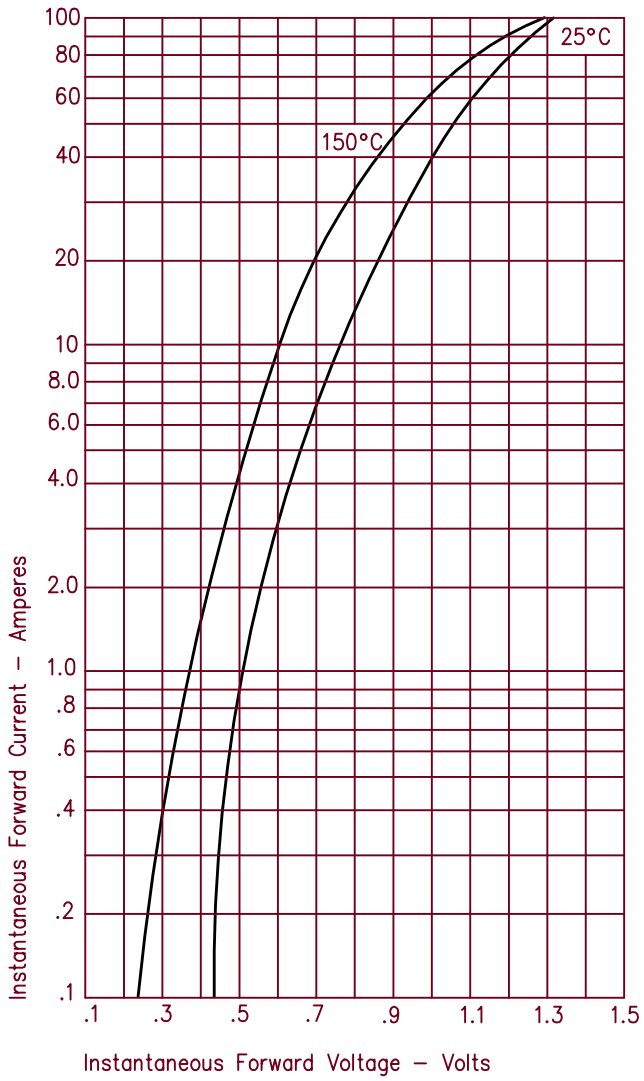


Figure 2
Typical Reverse Characteristics

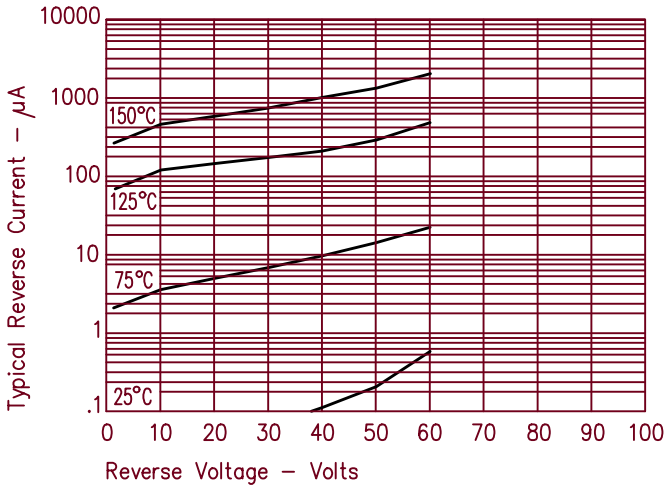


Figure 3
Typical Junction Capacitance