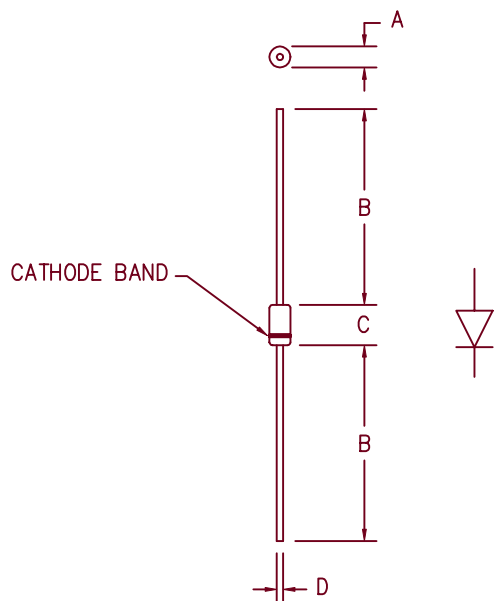


3 Amp Schottky Rectifier MS304 — MS306



Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
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	$T_A = 115^\circ C$ Square wave, $R_{\theta JL} = 52^\circ C/W$, $L = 3/8"$
Maximum surge current	I_{FSM} 150 Amps	8.3ms, half sine, $T_J = 175^\circ C$
Max peak forward voltage	V_{FM} .62 Volts	$I_{FM} = 3.0A$; $T_J = 25^\circ C$ *
Max peak reverse current	I_{RM} 100 μA	V_{RRM} , $T_J = 25^\circ C$
Typical junction capacitance	C_J 215 pF	$V_R = 5.0V$, $T_J = 25^\circ C$

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

Thermal and Mechanical Characteristics

Storage temperature range	T_{STG}	$-55^\circ C$ to $175^\circ C$
Operating junction temp range	T_J	$-55^\circ C$ to $175^\circ C$
Maximum thermal resistance	$R_{\theta JC}$	28°C/W Junction to case
	$R_{\theta JL}$	52°C/W Junction to lead
Weight		.032 ounces (1.0 grams) typical

MS304 — MS306

Figure 1
Typical Forward Characteristics

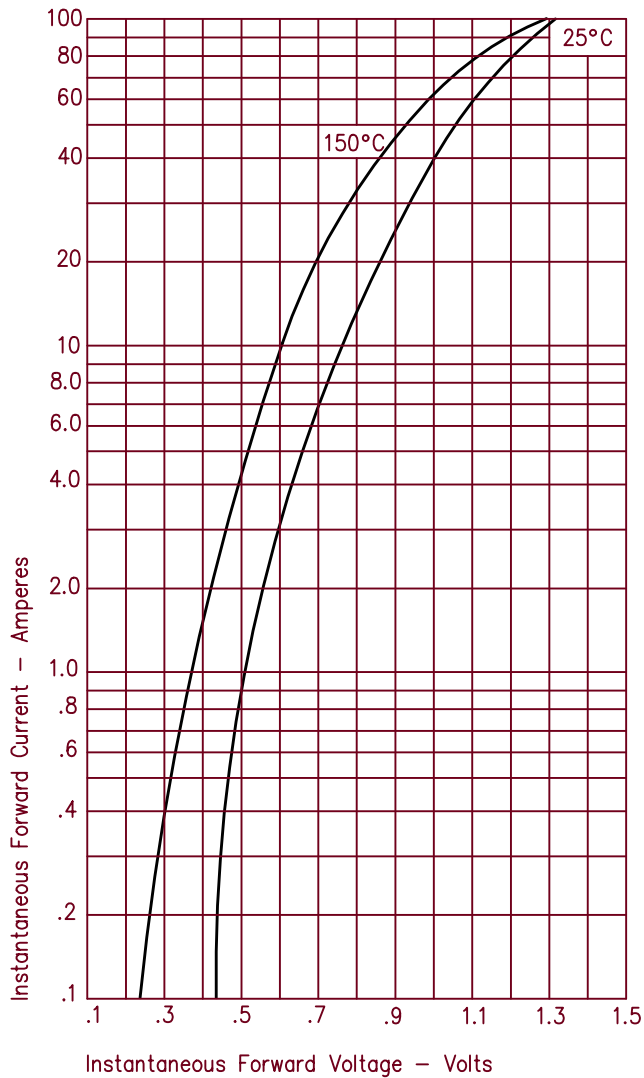


Figure 3
Typical Junction Capacitance

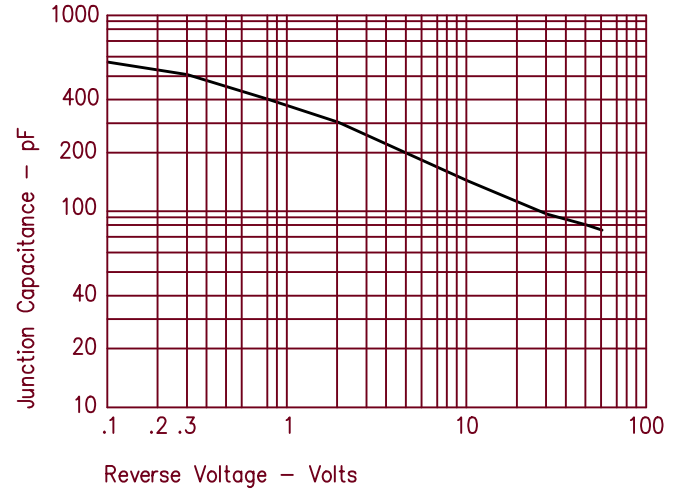


Figure 2
Typical Reverse Characteristics

