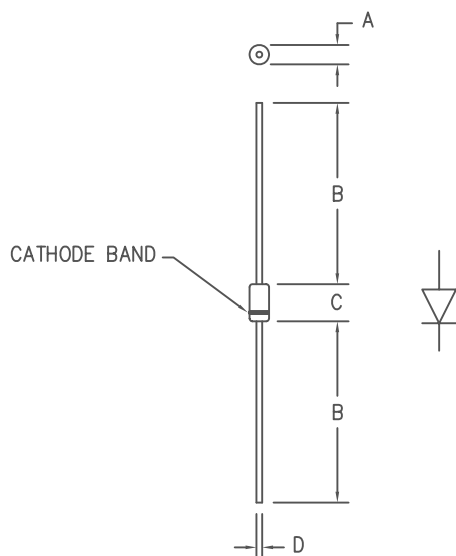


5 Amp Schottky Rectifier MSP535 — MSP545



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	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
MSP535	35V	35V
MSP540	40V	40V
VSK540	40V	40V
MSP545	45V	45V

- Schottky Barrier Rectifier
- Guard Ring for Reverse Protection
- 175°C Junction Temperature
- V_{RRM} 35 to 45 Volts
- High Current Capability

Electrical Characteristics

Average forward current	$I_F(AV)$ 5.0 Amps	$T_L = 103^\circ C$, Square wave, $R_{\theta JL} = 12^\circ C/W$, $L = 3/8"$
Maximum surge current	I_{FSM} 300 Amps	8.3ms, half sine, $T_J = 175^\circ C$
Max peak forward voltage	V_{FM} .42 Volts	$I_{FM} = 5A$; $T_J = 150^\circ C^*$
Max peak forward voltage	V_{FM} .52 Volts	$I_{FM} = 5A$; $T_J = 25^\circ C^*$
Max peak reverse current	I_{RM} 500 mA	V_{RRM} , $T_J = 125^\circ C^*$
Max peak reverse current	I_{RM} 2 mA	V_{RRM} , $T_J = 25^\circ C$
Typical junction capacitance	C_J 380 pF	$V_R = 5.0V$, $T_J = 25^\circ C$

*Pulse test: Pulse width 300 μ sec, 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 $150^\circ C$
Maximum thermal resistance	$L = 3/8"$ $R_{\theta JL}$	$12^\circ C/W$ Junction to Lead
Weight		.032 ounces (1.0 grams) typical



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05-25-07 Rev. 4

MSP535 — MSP545

Figure 1
Typical Forward Characteristics

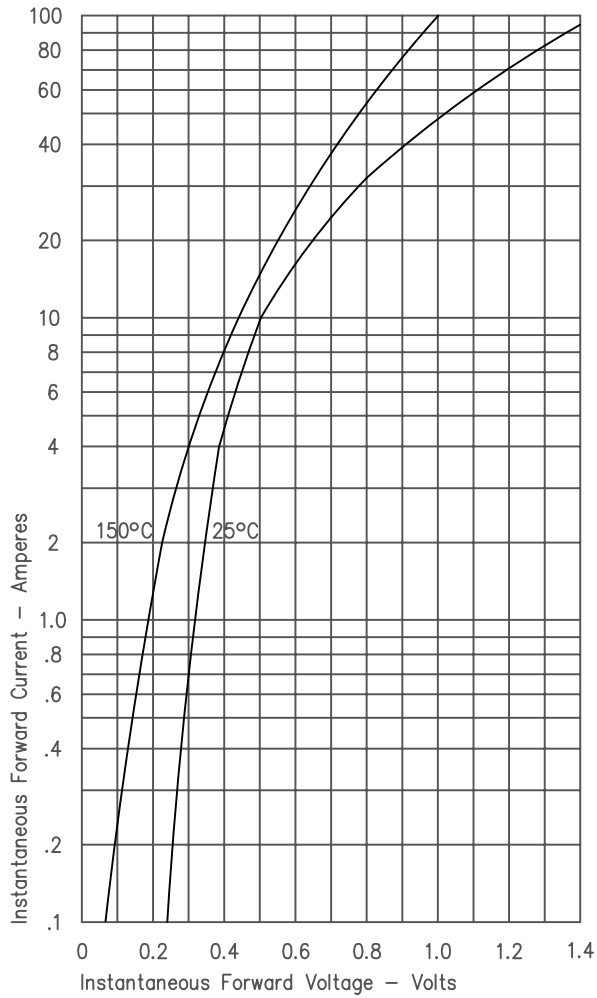


Figure 3
Typical Junction Capacitance

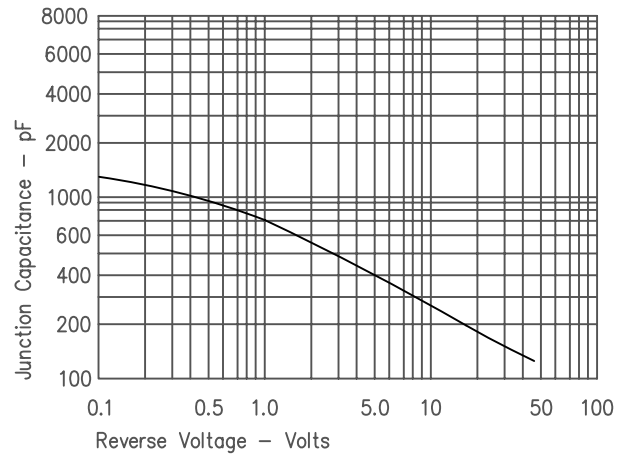


Figure 2
Typical Reverse Characteristics

