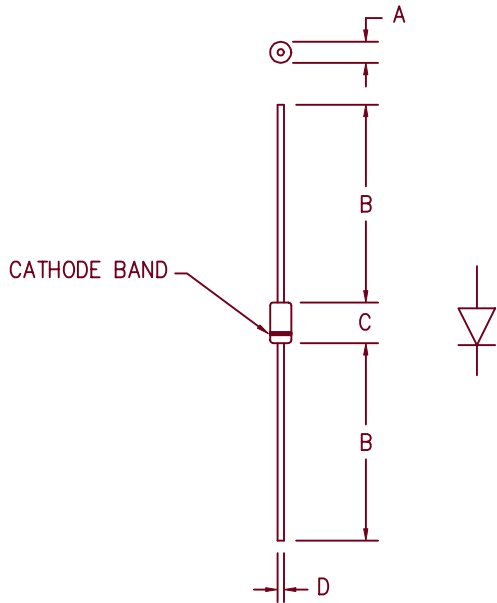


5 Amp Schottky Rectifier MSP535 — MSP545



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
MSP545	45V	45V

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

Electrical Characteristics

Average forward current	I _{F(AV)} 5.0 Amps	TA = 121°C Square wave, R _{θJL} = 11°C/W, L = 1/8"
Average forward current	I _{F(AV)} 5.0 Amps	TA = 111°C, Square wave, R _{θJL} = 14.7°C/W, L = 3/8"
Maximum surge current	I _{FSM} 300 Amps	8.3ms, half sine, T _J = 175°C
Max peak forward voltage	V _{FM} .42 Volts	I _{FM} = 5A: T _J = 150°C*
Max peak forward voltage	V _{FM} .52 Volts	I _{FM} = 5A: T _J = 25°C*
Max peak reverse current	I _{RM} 500 mA	V _{RRM} , T _J = 125°C*
Max peak reverse current	I _{RM} 2 mA	V _{RRM} , T _J = 25°C
Typical junction capacitance	C _J 380 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 150°C
Maximum thermal resistance	L = 3/8" R _{θJL}	14.7°C/W Junction to Lead
	L = 1/8" R _{θJL}	11°C/W Junction to Lead
Weight		.032 ounces (1.0 grams) typical

MSP535



MSP545

Figure 1
Typical Forward Characteristics

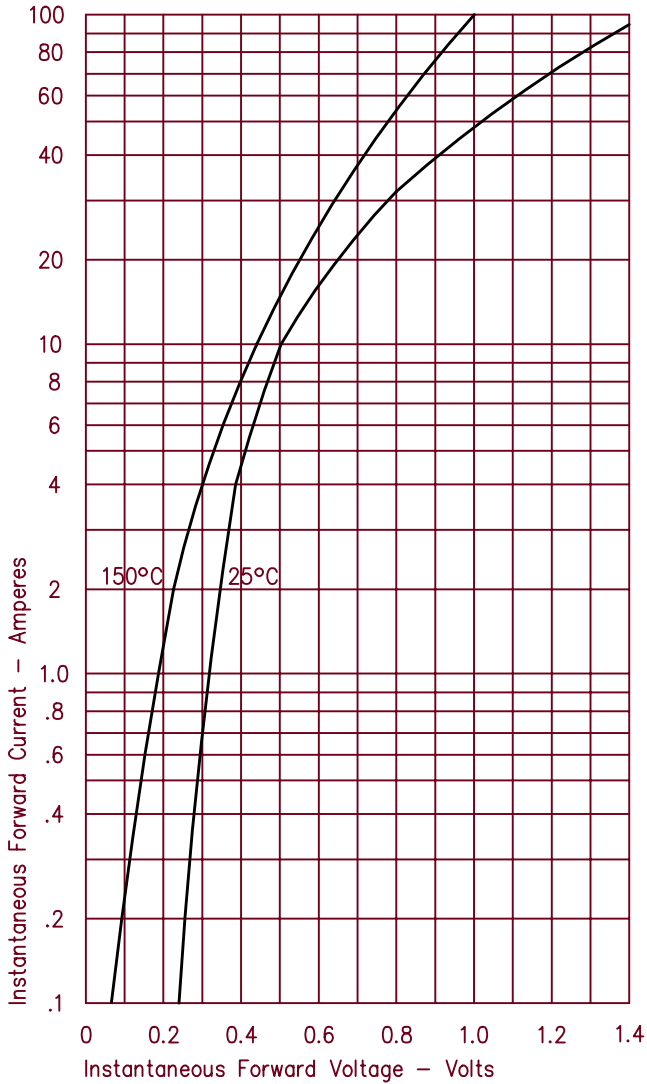


Figure 3
Typical Junction Capacitance

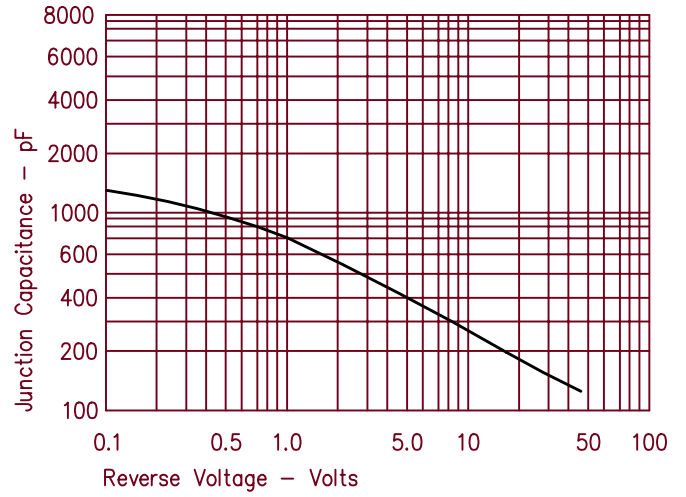


Figure 2
Typical Reverse Characteristics

