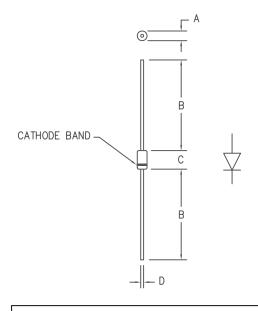
3 Amp Schottky Rectifier MSP345



Dim. Inches				Millimeter		
		Minimum	Maximum	Minimum	Maximum	Notes
A	4	.188	.260	4.78	6.50	Dia.
E	3	1.00		25.4		
(.285	.375	7.24	9.52	
)	.046	.056	1.17	1.42	Dia.

PLASTIC D0201AD

Microsemi Catalog Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage	
MSP345	45V	45V	

- Schottky Barrier Rectifier
- Guard Ring Protection
- Low Forward Voltage
- 150°C Junction Temperature

Electrical Characteristics

Average forward current Maximum surge current Max peak forward voltage Max peak reverse current Typical junction capacitance I F(AV) 3.0 Amps I FSM 150 Amps V FM .52 Volts I RM 1.5 mA C J 265 pF $^TL=82^{\circ}C,$ Square wave, $^R\theta JL=18^{\circ}C/W,$ L=3/8" 8.3ms, half sine, $^TJ=150^{\circ}C$ $^IFM=3.0A; ^TJ=25^{\circ}C$ * $^VRRM, ^TJ=25^{\circ}C$ $^VR=5.0V, ^TJ=25^{\circ}C$

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

Thermal and Mechanical Characteristics

Storage temperature range Operating junction temp range Maximum thermal resistance L = 3/8" Weight T_{STG} T_J RøJL

-55°C to 150°C 18°C/W Junction to lead .032 ounces (1.0 grams) typical

-55°C to 175°C



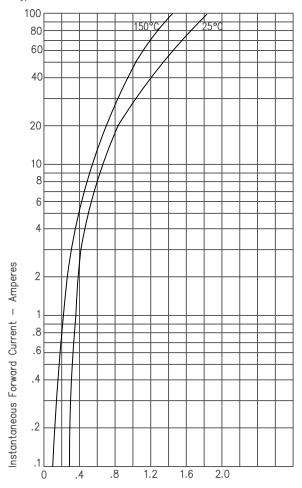
8700 East Thomas Road, P.O. Box 1390
Scottsdale, AZ 85252
Phy. (480), 041, 6300

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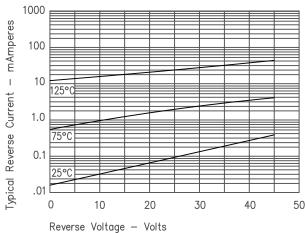
MSP345

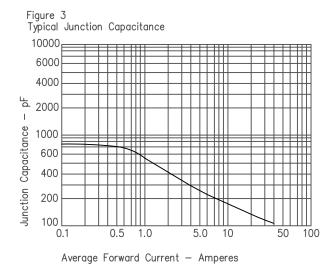
Figure 1 Typical Forward Characteristics



Instantaneous Forward Voltage — Volts

Figure 2 Typical Reverse Characteristics





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