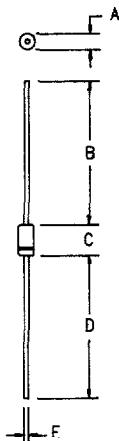


1 Amp Schottky Rectifier MSP140, MSP145, MSP150

C



	Dim. Inches		Millimeter		
	Minimum	Maximum	Minimum	Maximum	Notes
A	---	.107	---	2.718	Dia.
B	1.10	---	27.940	---	
C	---	.205	---	5.207	
D	1.10	---	27.940	---	
E	.030	.034	.762	.864	

PLASTIC D041

Catalog Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage	• Schottky Barrier Rectifier • Guard Ring Protection • Low Forward Voltage • 1 Ampere/50 Volts • 150°C Junction Temperature • VRMM 40 to 50 Volts
	V_{RWM}	V_{RRM}	
MSP140	40V	40V	
MSP145	45V	45V	
MSP150	50V	50V	

Electrical Characteristics	
Average forward current	$I_{F(AV)}$ 1.0 Amps
Average forward current	$I_{F(AV)}$ 1.0 Amps
Maximum surge current	I_{FSM} 75 Amps
Max peak forward voltage	V_{FM} .39 Volts
Max peak forward voltage	V_{FM} .58 Volts
Max peak reverse current	I_{RM} 100 μ A
Typical junction capacitance	C_J 60pF
	*Pulse test: Pulse width 300 μ sec, Duty cycle 2%

Thermal and Mechanical Characteristics			
Storage temperature range	T_{STG}	-65°C to + 175°C	
Operating junction temp range	T_J	-65°C to + 150°C	
Maximum thermal resistance	$L = 3/8"$ $R_{\theta JL}$	60°C/W	Junction to Lead
	$L = 0$ $R_{\theta JL}$	35°C/W	Junction to Lead
Weight		0.38 grams typical	

PH: 303-469-2161
FAX: 303-466-3775

**Microsemi Corp.
Colorado**

C-53

MSP140, MSP145, MSP150

Figure 1
Maximum Forward Characteristics

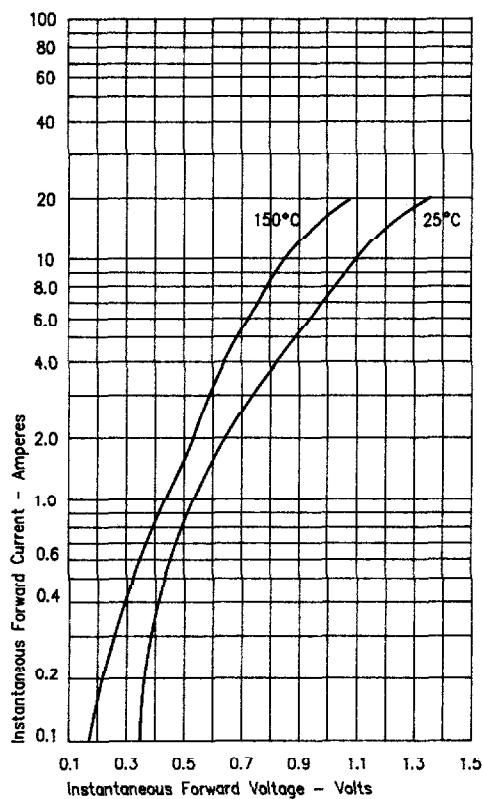


Figure 3
Typical Junction Capacitance

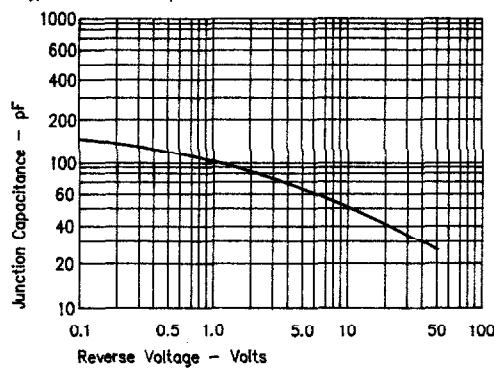


Figure 2
Typical Reverse Characteristics

