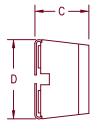
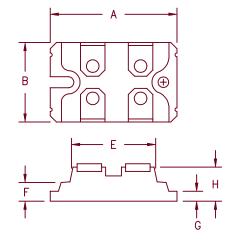
2 X 100A Schottky Barrier Rectifier





Dim. Inches		Millimeter			
	Minimum	Maximum	Minimum	Maximum	Notes
Α	1.494	1.504	37.95	38.20	
В	0.976	0.986	24.79	25.04	
С	0.472	0.480	12.00	12.24	
D	0.990	1.000	25.15	25.40	
E	1.049	1.059	26.67	26.90	
F	0.164	0.174	4.16	4.42	
G	0.080	0.084	2.03	2.13	
Н	0.372	0.378	9.45	9.60	

SOT-227



Microsemi Catalog Number

Industry Part Number

Working Peak

Repetitive Peak Reverse Voltage Reverse Voltage

SPB10015

STPS80L15TV STPS120L15TV 15V 15V

- 2500V isolation Terminals to Base
- Low Forward Voltage Drop
- 2 Schottky Rectifiers in one pkg.
- 15V @ 100A/leg
- Low Switching losses

Electrical Characteristics

Average forward current per leg Average forward current per package Maximum surge current per leg Maximum repetitive reverse current per leg Max peak forward voltage per leg Max peak reverse current per leg Max peak reverse current per leg Typical junction capacitance per leg

F(AV) 100 Amps ¹F(AV) 200 Amps FSM 1600 Amps R(OV) 2 Amps VFM. 0.48 Volts ^IRM 8 mA V_{ISOL} 2500 VDC 9500 pF

 $^{\mathsf{T}}\mathsf{C} = 95^{\circ}\mathsf{C}$ $^{\mathsf{T}}\mathsf{C} = 95^{\circ}\mathsf{C}$ 8.3ms, half sine, $TJ = 175^{\circ}C$ f = 1 KHz, 25°C, 1 µsec square wave | FM = 100A: TJ = 25°C* | VRRM, TJ = 25°C* any terminal to base $V_R = 5.0V, T_J = 25^{\circ} C$

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

Thermal and Mechanical Characteristics

Storage temp range Operating junction temp range Max thermal resistance per leg Max thermal resistance per pkg Mounting Torque Weight

TSTG Rejc ROJC

-55°C to 175°C -55°C to 125°C 0.50°C/W 0.25°C/W 9-13 inch pounds

1.1 ounces (30 grams) typical



4-16-02 Rev. IR

PB10015

Figure 1 Typical Forward Characteristics - Per Leg

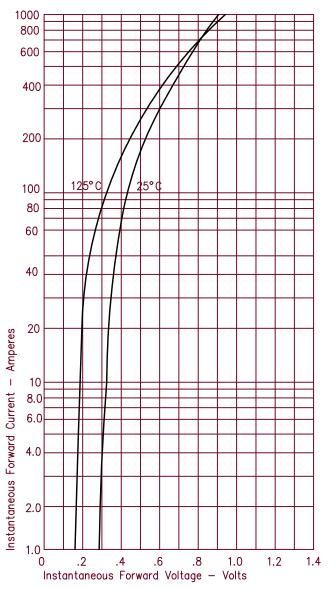


Figure 2 Typical Reverse Characteristics - Per Leg

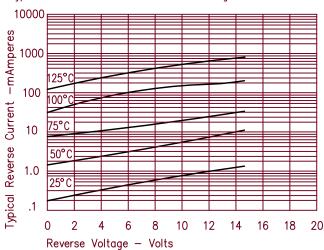


Figure 3 Typical Junction Capacitance - Per Leg

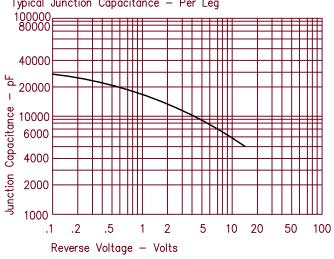


Figure 4 Forward Current Derating - Per Leg

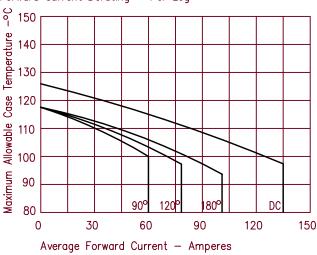


Figure 5 Maximum Forward Power Dissipation - Per Leg

