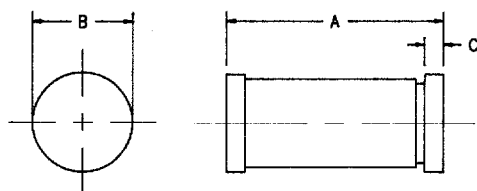


1 Amp Schottky Rectifier HSM150, HSM160

C



Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	.189	.205	4.80	5.20	
B	.094	.105	2.39	2.66	Dia.
C	.016	.022	.41	.55	

GLASS HERMETIC DO213AB

Microsemi Catalog Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage	<ul style="list-style-type: none"> • Schottky Barrier Rectifier • Guard Ring Protection • 150°C Junction Temperature • V_{RRM} 50 to 60 Volts
HSM150 HSM160	50V 60V	50V 60V	

Electrical Characteristics		
Average forward current	$I_F(AV)$ 1.0 Amps	$T_A = 118^\circ\text{C}$, Square wave, $R_{\theta JC} = 45^\circ\text{C/W}$
Maximum surge current	I_{FSM} 75 Amps	8.3ms, half sine, $T_J = 150^\circ\text{C}$
Max peak forward voltage	V_{FM} .51 Volts	$I_{FM} = 0.1A; T_J = 25^\circ\text{C}^*$
Max peak forward voltage	V_{FM} .69 Volts	$I_{FM} = 1.0A; T_J = 25^\circ\text{C}^*$
Max peak reverse current	I_{RM} 100 μA	$V_{RRM}, T_J = 25^\circ\text{C}$
Typical junction capacitance	C_J 55pF	$V_R = 5.0V, T_J = 25^\circ\text{C}$
*Pulse test: Pulse width 300 μsec , Duty cycle 2%		

Thermal and Mechanical Characteristics		
Storage temperature range	T_{STG}	-65°C to $+175^\circ\text{C}$
Operating junction temp range	T_J	-65°C to $+150^\circ\text{C}$
Maximum thermal resistance	$R_{\theta JC}$	45°C/W Junction to case
Weight		.0047 ounces (.012 grams) typical

HSM150, HSM160

Figure 1
Typical Forward Characteristics

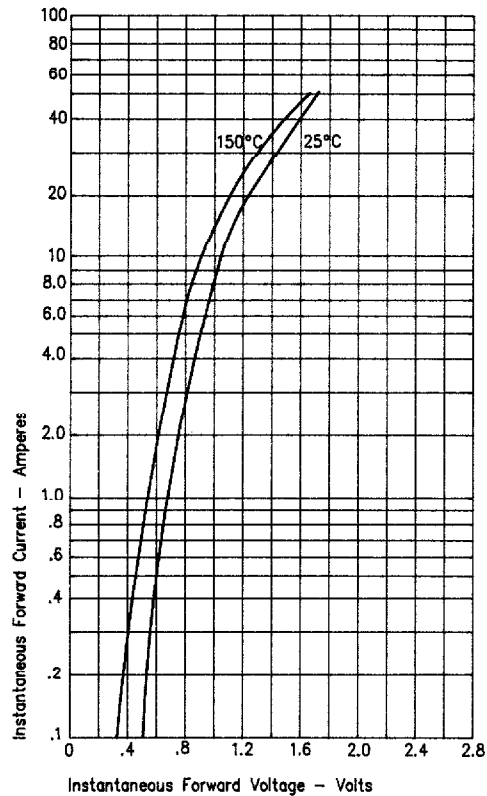


Figure 3
Typical Junction Capacitance

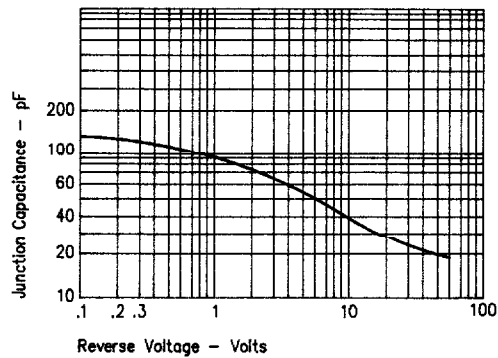


Figure 2
Typical Forward Characteristics

