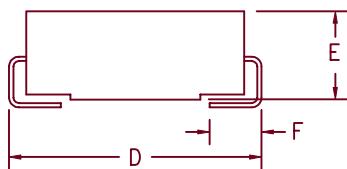
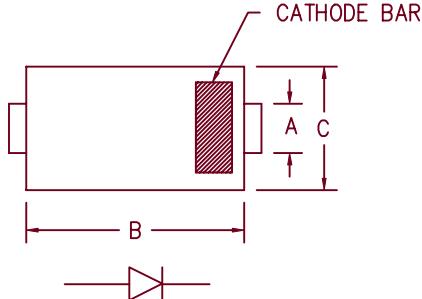


# 1 Amp Schottky Rectifier

## HSM150J, HSM160J



Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	.073	.087	1.85	2.21	
B	.160	.180	4.06	4.57	
C	.130	.155	3.30	3.94	
D	.205	.220	5.21	5.59	
E	.075	.130	1.91	3.30	
F	.030	.060	.76	1.52	

DO-214BA Package

Microsemi Catalog Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage	Device Marking
HSM150J	50V	50V	H150
HSM160J	60V	60V	H160

- Schottky Barrier Rectifier
- Guard Ring Protection
- 150°C Junction Temperature
- $V_{RRM}$  50 to 60 Volts
- Surface mount package

### Electrical Characteristics

Average forward current	$I_F(AV)$ 1.0 Amps	Square wave
Maximum surge current	$I_{FSM}$ 50 Amps	8.3ms, half sine, $T_J = 150^\circ C$
Max peak forward voltage	$V_{FM}$ .51 Volts	$I_{FM} = 0.1A; T_J = 25^\circ C$ *
Max peak forward voltage	$V_{FM}$ .69 Volts	$I_{FM} = 1.0A; T_J = 25^\circ C$ *
Max peak reverse current	$I_{RM}$ 100 $\mu A$	$V_{RRM}, T_J = 25^\circ C$
Typical junction capacitance	$C_J$ 53pF	$V_R = 5.0V, T_J = 25^\circ C$

\*Pulse test: Pulse width 300  $\mu$ sec, 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 175°C
Maximum thermal resistance	$R_{\theta JL}$	15°C/W Junction to lead
Weight		.0047 ounces (.013 grams) typical

# HSM150J, HSM160J

Figure 1  
Typical Forward Characteristics

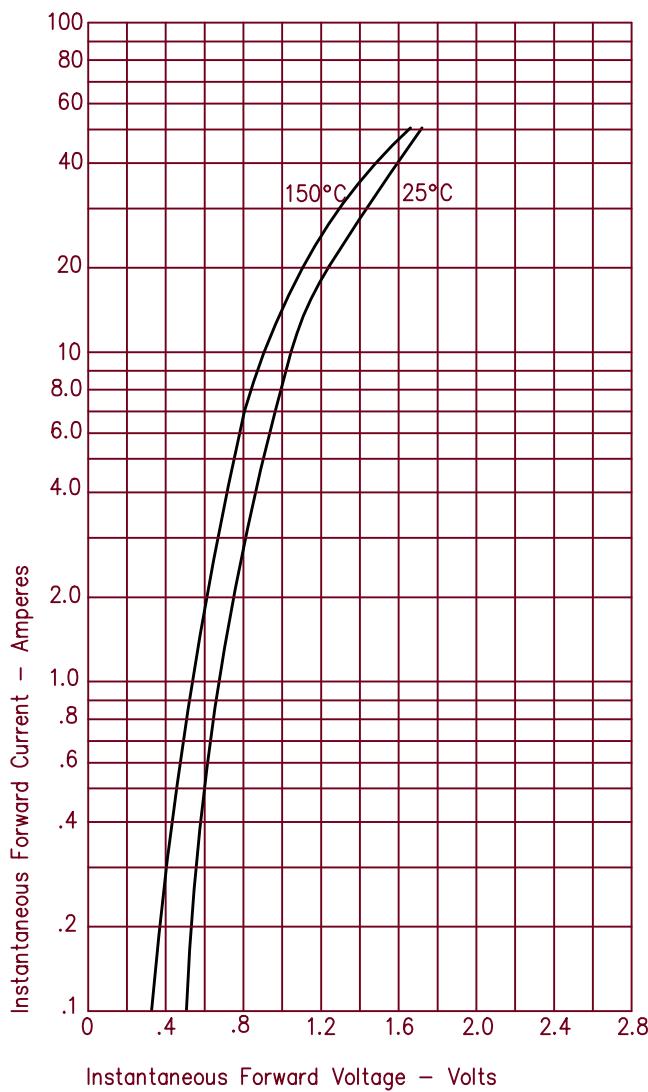


Figure 3  
Typical Junction Capacitance

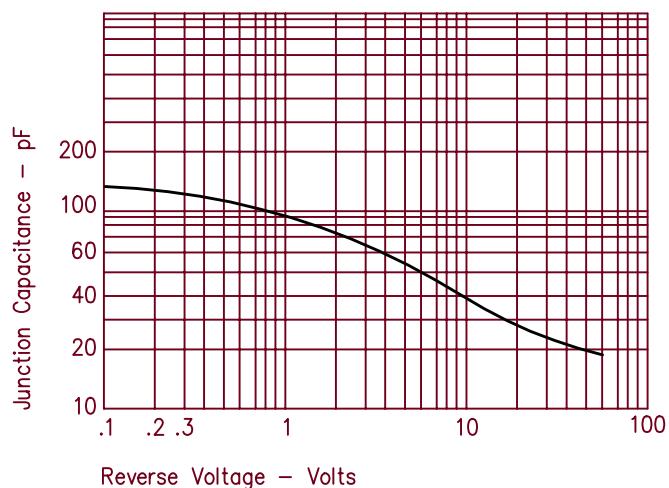


Figure 2  
Typical Forward Characteristics

