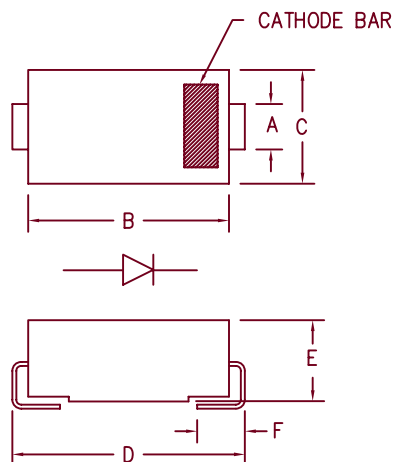


1 Amp Schottky Rectifier HSM150J, HSM160J



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	Industry Part Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
HSM150J		50V	50V
HSM160J	10MQ060N 10BQ060 SK16	60V	60V

- 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 μA	$V_{RRM}, T_J = 25^\circ C$
Typical junction capacitance	C_J 53pF	$V_R = 5.0V, T_J = 25^\circ C$

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

Thermal and Mechanical Characteristics

Storage temperature range	T_{STG}	$-55^\circ C$ to $175^\circ C$
Operating junction temp range	T_J	$-55^\circ C$ to $175^\circ C$
Maximum thermal resistance	$R_{\theta JL}$	15°C/W Junction to lead
Weight		.0047 ounces (.013 grams) typical



8700 East Thomas Road, P.O. Box 1390
Scottsdale, AZ 85252
PH: (480) 941-6300
FAX: (480) 947-1503
www.microsemi.com

05-15-07 Rev. 4

HSM150J, HSM160J

Figure 1
Typical Forward Characteristics

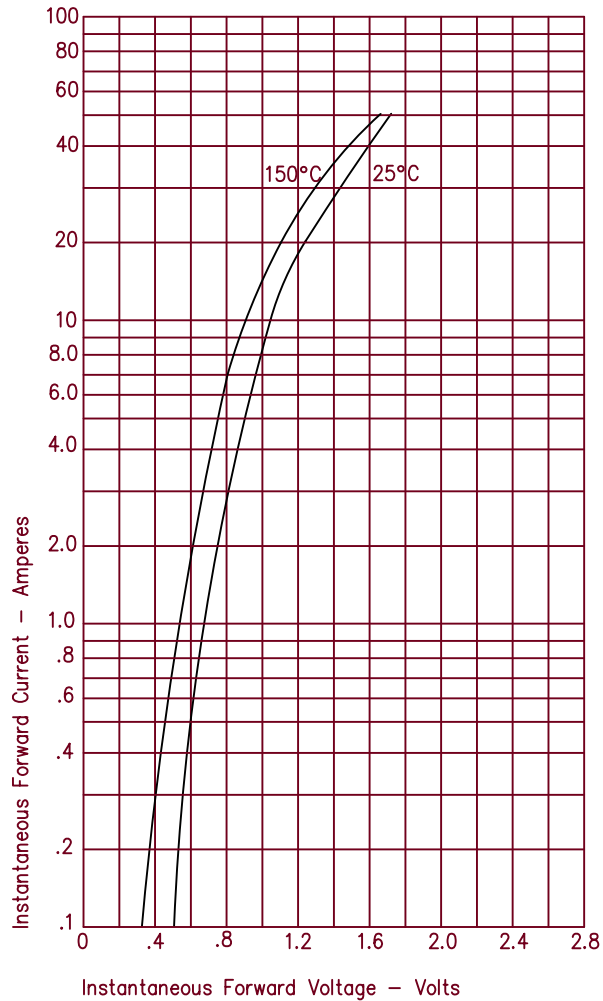


Figure 3
Typical Junction Capacitance

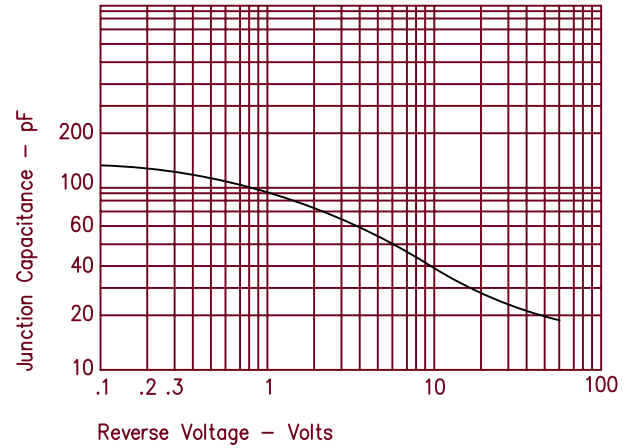


Figure 2
Typical Forward Characteristics

