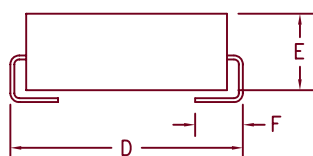
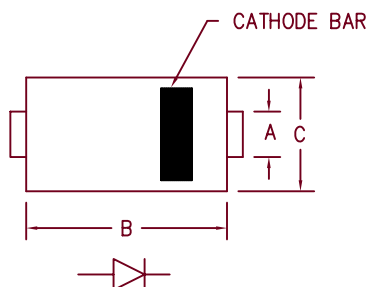


1 Amp Schottky Rectifier

HSM180J — HSM1100J



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	.760	1.52	

DO-214BA Package

Microsemi Catalog Number	Industry Part Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
HSM180J	SK18	80V	80V
HSM190J	MBRS190TR MBRS190T3	90V	90V
HSM1100J	10BQ100 10MQ100N MBRS1100T3 SK110	100V	100V

- Underwriters Laboratory Flammability Class 94V-0
- Schottky Barrier Rectifier
- Guard Ring Protection
- 175°C Junction Temperature
- Surface mount package

Electrical Characteristics

Average forward current
Maximum surge current
Max peak forward voltage
Max peak forward voltage
Max peak reverse current
Typical junction capacitance

$I_F(AV)$ 1.0 Amps
 I_{FSM} 40 Amps
 V_{FM} .57 Volts
 V_{FM} .84 Volts
 I_{RM} 100 μA
 C_J 45pF

$T_L = 140^\circ C$, Square wave, $R_{\theta JL} = 15^\circ C/W$
8.3ms, half sine, $T_J = 175^\circ C$
 $I_{FM} = 0.1A: T_J = 25^\circ C^*$
 $I_{FM} = 1.0A: T_J = 25^\circ C^*$
 $V_{RRM}, T_J = 25^\circ C$
 $V_R = 5.0V, T_J = 25^\circ C$

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

Thermal and Mechanical Characteristics

Storage temperature range
Operating junction temp range
Maximum thermal resistance
Weight

T_{STG}
 T_J
 $R_{\theta JL}$

$-55^\circ C$ to $175^\circ C$
 $-55^\circ C$ to $175^\circ C$
15°C/W junction to lead
.0047 ounces (.013 grams) typical



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www.microsemi.com

05-15-07 Rev. 5

HSM180J — HSM1100J

Figure 1
Typical Forward Characteristics

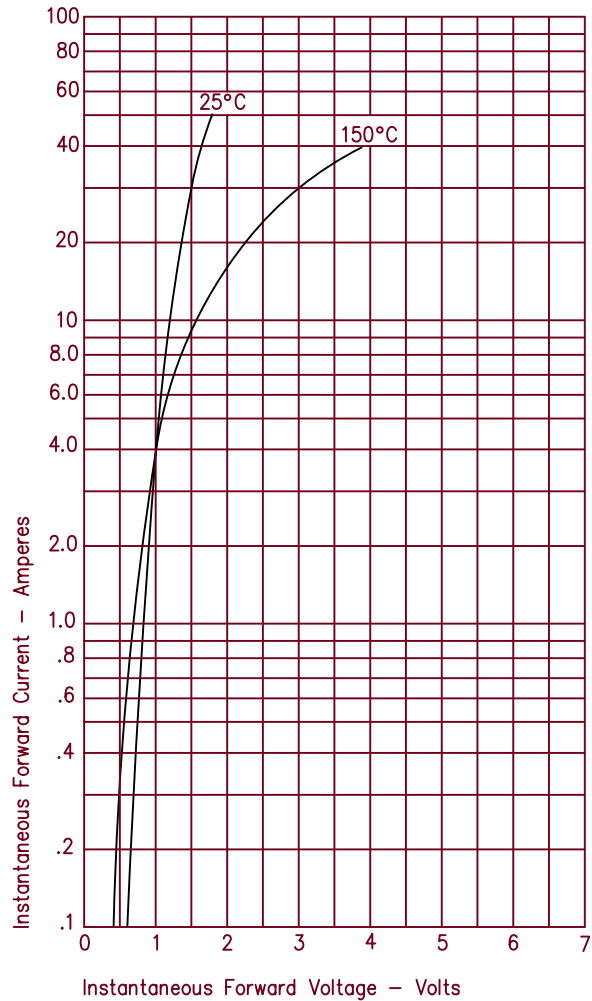


Figure 3
Typical Junction Capacitance

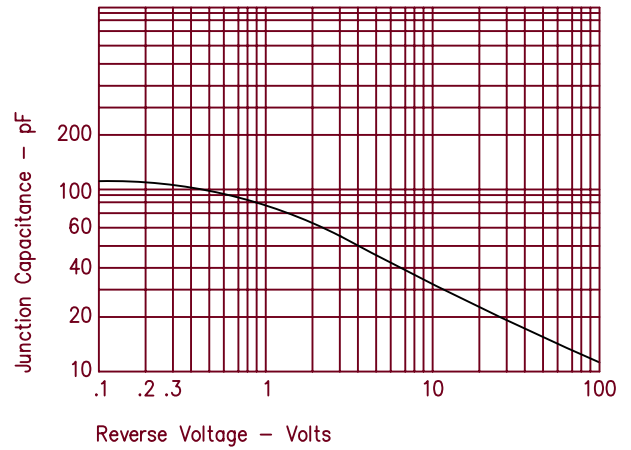
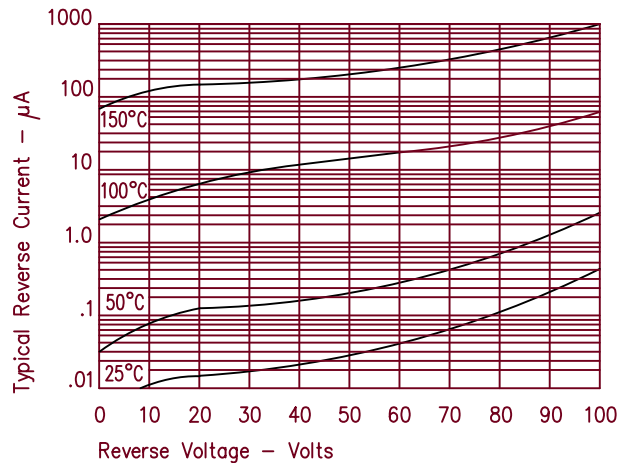


Figure 2
Typical Reverse Characteristics





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HSM180Je3/TR13 (#319994)



Schottky Rectifier

Division	CBU	Datasheet	msc1527.pdf
Mil-Spec	(none)	Spice Data	(none)
Shipping	(none)	Qual Data	Contact Microsemi

ROHS By Design

Description

1Amp, 80V-100V Schottky Rectifier in plastic DO214BA surface mount package

Package
SMAJ(SM)

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HSM190Je3/TR13 (#319995)



Schottky Rectifier

Division	CBU	Datasheet	msc1527.pdf
Mil-Spec	(none)	Spice Data	(none)
Shipping	(none)	Qual Data	Contact Microsemi

ROHS By Design

Description

1Amp, 80V-100V Schottky Rectifier in plastic DO214BA surface mount package

Package
SMAJ(SM)

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