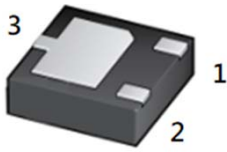




SM240NH



Schottky Barrier Rectifiers



Pin 3 ← Pin 1 and 2

DFN2020-3L

Primary Characteristics

I_F	2	A
V_{RRM}	40	V
I_{FSM}	40	A
V_F	0.52	V
$T_J \text{ max}$	125	°C

Features

- Ideal for surface mount applications
- Easy pick and place
- Built-in strain relief
- Fast switching speed

Mechanical Data

- Case : DFN2020-3L
- Case Material : Molded Plastic. UL Flammability Classification Rating 94V-0
- Terminals : Lead free Plating (Tin Finish)
Solderable per MIL-STD-202, Method 208
- External Lead-Free Finish

Ordering Information

Part No.	Remark	Package	Packing
SM240NH	RoHS Compliant	DFN2020-3L	3000 / Tape & Reel
SM240NH-H	Halogen Free		

Maximum Ratings (TA=25°C unless otherwise noted)

Parameter	Symbol	SM240NH	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	40	V
Maximum RMS Voltage	V_{RMS}	28	V
Maximum DC Blocking Voltage	V_{DC}	40	V
Maximum Average Forward Rectified Current	I_F	2.0	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I_{FSM}	40	A
Maximum Instantaneous Forward Voltage $I_F=2A @ 25^\circ C$	V_F	0.52	V
Maximum DC Reverse Current @ TA=25°C at Rated DC Blocking Voltage @ TA=100°C	I_R	0.5 30	mA
Typical Junction Capacitance (NOTE1)	C_J	100	pF
Operating Temperature Range	T_J	-55 to +125	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C

NOTES :

1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC



Rating and Characteristics Curves

FIG. 1-Typical Forward Characteristics

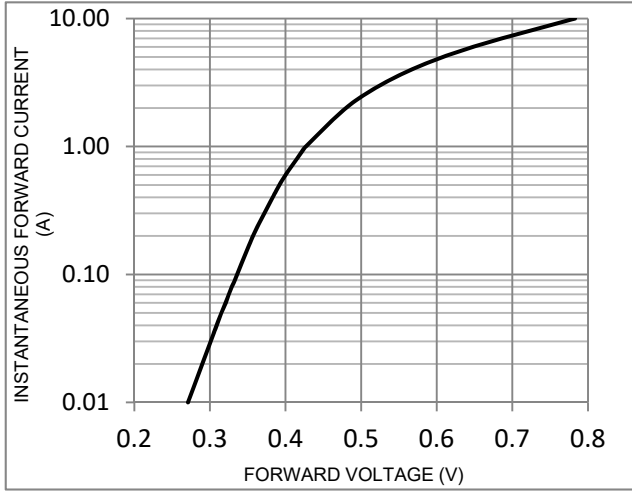


FIG. 2-Typical Reverse Characteristics

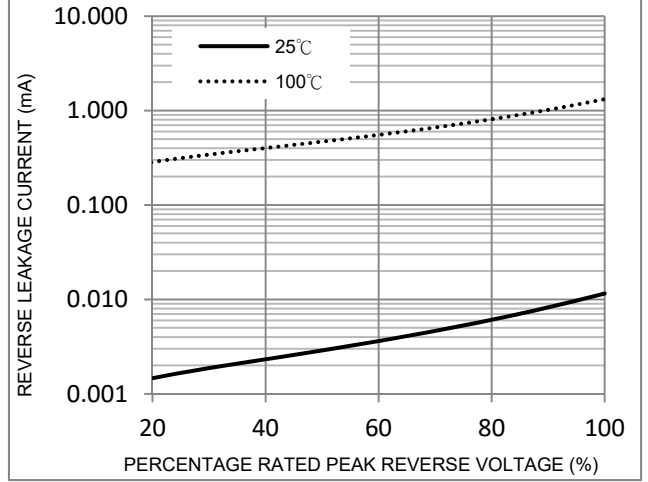


FIG. 3-Maximum Non-Repetitive Forward Surge Current

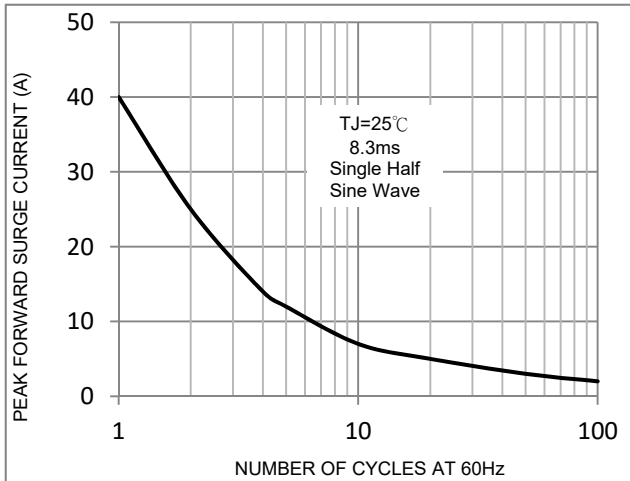
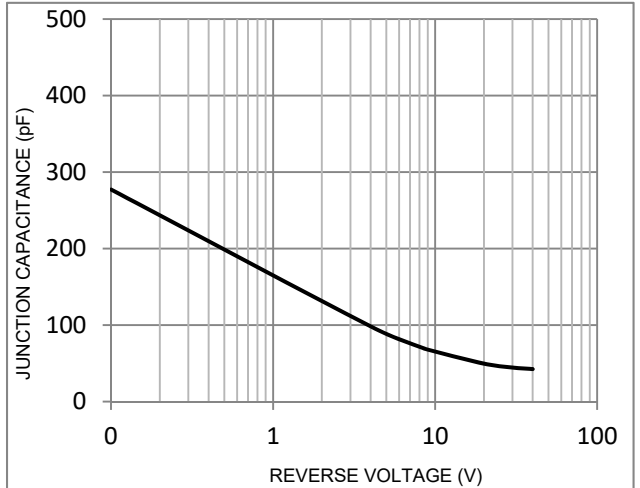


FIG. 5-Typical Junction Capacitance



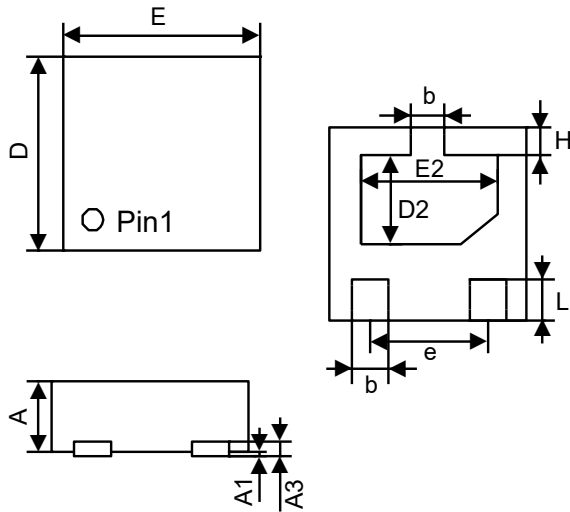


SM240NH



Schottky Barrier Rectifiers

Package Outline Dimensions

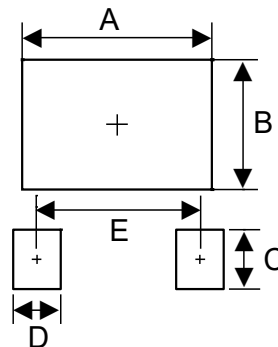


Symbol	Dimensions in millimeters		Dimensions in inches	
	Min.	Max.	Min.	Max.
A	0.450	0.600	0.017	0.024
A1	-	0.050	-	0.002
A3	0.152 REF		0.006 REF	
b	0.250	0.350	0.009	0.014
D	1.900	2.100	0.074	0.083
E	1.900	2.100	0.074	0.083
D2	0.850	1.150	0.033	0.046
E2	1.400	1.600	0.055	0.063
e	1.30 BSC		0.052 BSC	
H	0.200	0.300	0.007	0.012
L	0.350	0.450	0.013	0.018

DFN2020-3L

Suggested Pad Layout

Dimension	Outline	DFN2020-3L (mm)
A		1.80
B		1.20
C		0.50
D		0.50
E		1.30





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