

GSDB320 Series

Surface Mount Schottky Barrier Rectifiers

Product Description

Reverse Voltage 20V TO 200V Forward Current 3.0A

Features

- For Surface Mount Application
- Metal-Semiconductor Junction With Guardring
- Epitaxial Construction
- Very Low Forward Voltage Drop
- High Current Capability
- Plastic Material Has UL Flammability Classification 94V-0
- For Use In Low, And Polarity Protection Applications
- Lead(Pb)-Free

Mechanical Data

- Case : Molded Plastic
- Polarity :Indicated by cathode band
- Weight : 0.231 grams

Packages



SMC (DO-214AB)

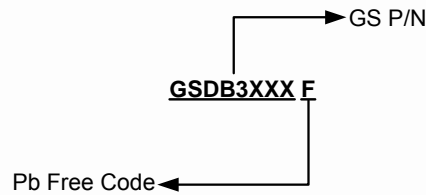
Marking Information

P/N	Package	Part Marking
GSDB320F	SMC(DO-214AB)	WTYYWW B320.
GSDB330F	SMC(DO-214AB)	WTYYWW B330.
GSDB340F	SMC(DO-214AB)	WTYYWW B340.
GSDB350F	SMC(DO-214AB)	WTYYWW B350.
GSDB360F	SMC(DO-214AB)	WTYYWW B360.
GSDB380F	SMC(DO-214AB)	WTYYWW B380.
GSDB3100F	SMC(DO-214AB)	WTYYWW B3100.
GSDB3150F	SMC(DO-214AB)	WTYYWW B3150.
GSDB3200F	SMC(DO-214AB)	WTYYWW B3200.

※ "WT" GS Code & "YYWW" Date Code

※ "B3XXX" GS P/N & "." Halogen Free

Ordering Information



Part Number	Package	Quantity
GSDB320F Series	SMC(DO-214AB)	3000 PCS

Electrical Characteristics (T_A=25°C unless otherwise noted)

(Rating 25°C Ambient Temperature Unless Otherwise Specified. Single Phase Half Wave, 60Hz, Resistive or Inductive Load. For Capacitive Load, Derate Current by 20%.)

Symbol	Conditions	B320	B330	B340	B350	B360	Unit
V _{RRM}	Maximum Repetitive Peak Reverse Voltage	20	30	40	50	60	V
V _{RMS}	Maximum RMS Voltage	14	21	28	35	42	V
V _{DC}	Maximum DC Blocking Voltage	20	30	40	50	60	V
V _F	Maximum Instantaneous I _F =3A @ T _A =25°C	0.5		0.7			V
I _R	Maximum DC Reverse Current At Rated DC Blocking Voltage	T _A =25°C	0.5				mA
		T _A =100°C	10				
C _J	Typical Junction Capacitance	180		150			pF
Symbol	Conditions	B380	B3100	B3150	B3200	Unit	
V _{RRM}	Maximum Repetitive Peak Reverse Voltage	80	100	150	200	V	
V _{RMS}	Maximum RMS Voltage	56	70	105	140	V	
V _{DC}	Maximum DC Blocking Voltage	80	100	150	200	V	
V _F	Maximum Instantaneous I _F =3A @ T _A =25°C	0.85		0.87	0.9	V	
I _R	Maximum DC Reverse Current At Rated DC Blocking Voltage	T _A =25°C	0.2			mA	
		T _A =100°C	5				
C _J	Typical Junction Capacitance	110	100	80		pF	
I _F	Maximum Average Forward Rectified Current	3				A	
I _{FSM}	Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load	80				A	
R _{θJA}	Thermal Resistance Junction to Ambient	70				°C/W	
R _{θJC}	Thermal Resistance Junction to Case	30				°C/W	
T _J	Operating Temperature Range	-55 to +125				°C	
T _{STG}	Storage Temperature Range	-55 to +150				°C	

Typical Characteristics

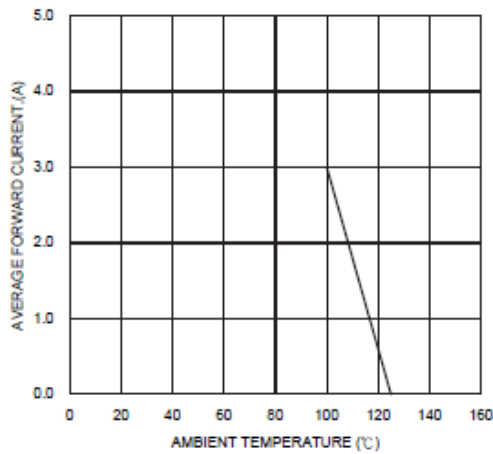


FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

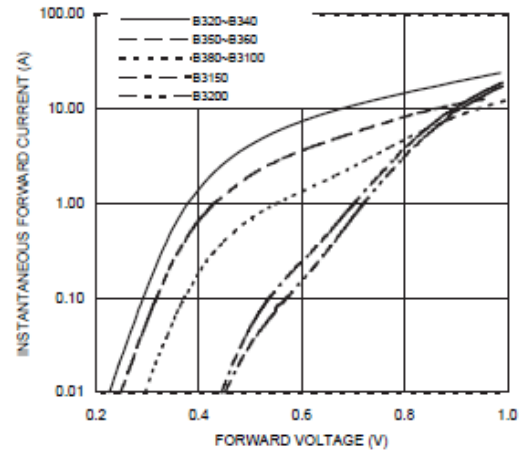


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

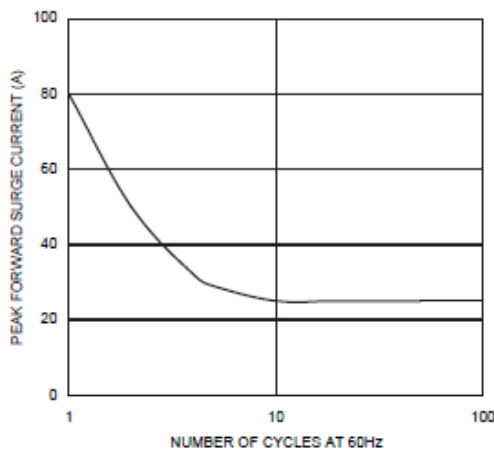


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

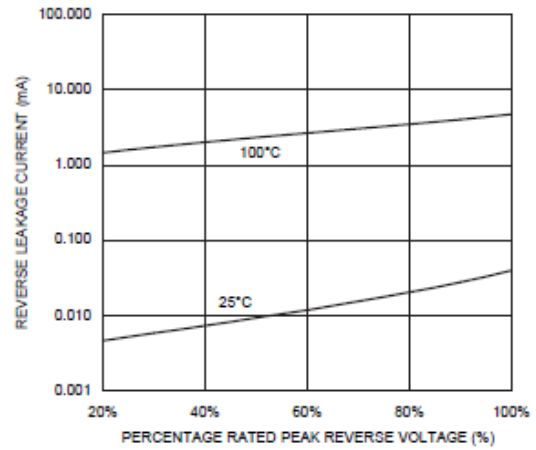


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

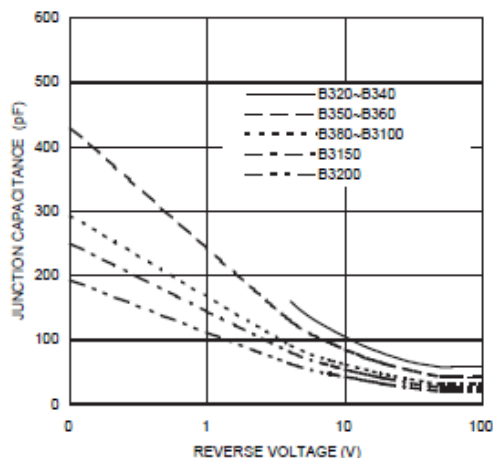
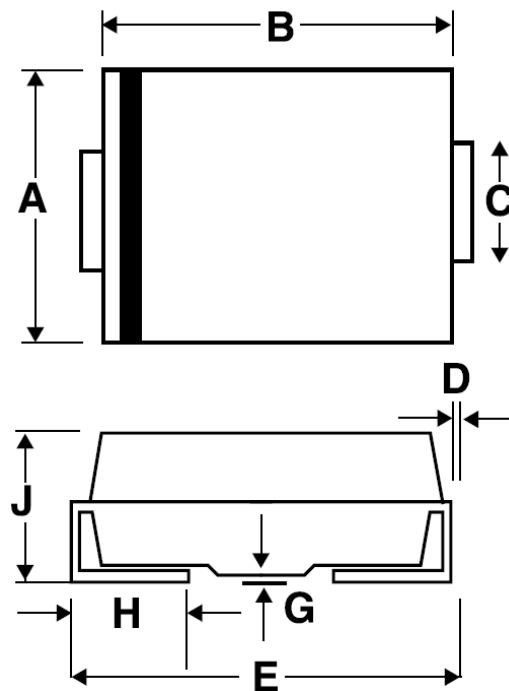


FIG. 5-TYPICAL JUNCTION CAPACITANCE

Package Dimension

SMC (DO-214AB)



Dimensions

Symbol	Millimeters		Inches	
	Min	Max	Min	Max
A	5.59	6.22	0.220	0.244
B	6.60	7.11	0.259	0.279
C	2.75	3.18	0.108	0.125
D	0.15	0.31	0.005	0.012
E	7.75	8.13	0.305	0.320
G	0.10	0.20	0.003	0.007
H	0.76	1.52	0.029	0.059
J	2.00	2.62	0.078	0.103

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