

GSDB340LA

Low VF Surface Mount Schottky Barrier Rectifiers

Product Description

Reverse Voltage 40V Forward Current 3.0A

Features

- Low Surface Mounted Applications
- Metal-Semiconductor Junction With Guard ring
- Epitaxial Construction
- Very Low Forward Voltage Drop
- High Current Capability
- Plastic Material Has UL Flammability Classification 94V-0
- For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity Protection Applications
- Lead(Pb)-Free

Mechanical Data

- Case : Molded Plastic
- Polarity : Indicated By Cathode Band
- Weight : 0.002 ounces, 0.064 grams

Packages



SMA(DO-214AC)

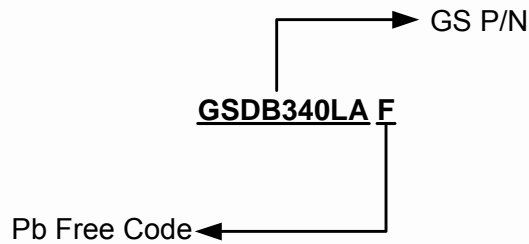
Marking Information

Part Number	Package	Marking
GSDB340LAF	SMA(DO-214AC)	WTYYWW B340LA.

※ “WT” GS Code & “YYWW” Date Code

※ “B340LA” GS P/N & “.” Halogen Free

Ordering Information



Part Number	Package	Quantity
GSDB340LAF	SMA(DO-214AC)	5000 PCS

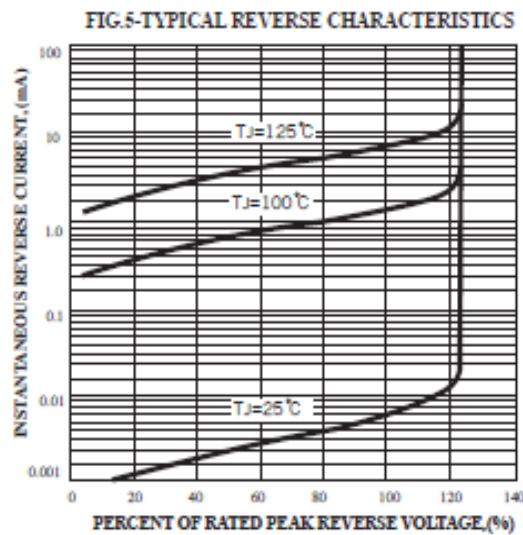
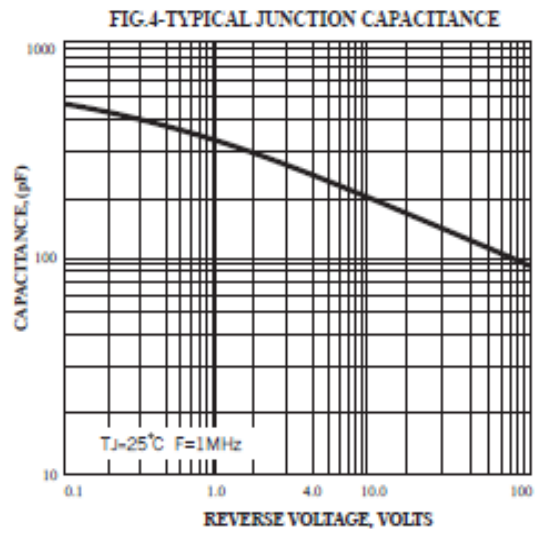
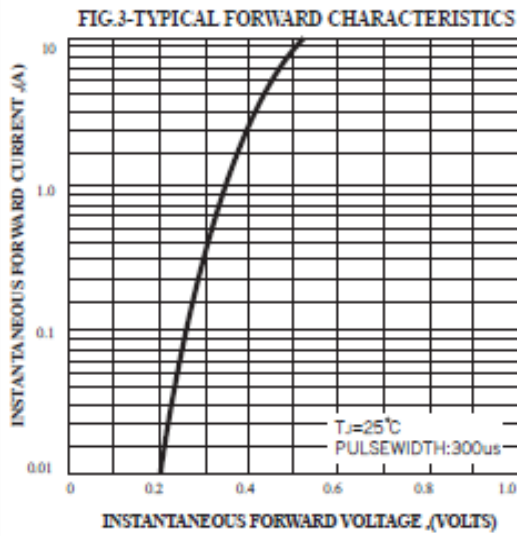
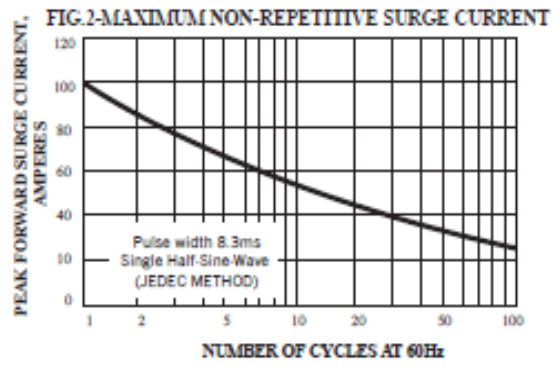
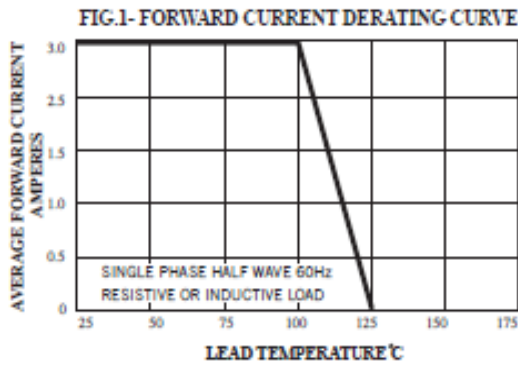
Electrical Characteristics

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	GSDB340LAF	Unit	
V_{RRM}	Maximum Recurrent Peak Reverse Voltage	40	V	
V_{RMS}	Maximum RMS Voltage	28	V	
V_{DC}	Maximum DC Blocking Voltage	40	V	
V_F	Maximum Instantaneous At 3.0A DC	0.42	V	
$I_{F(AV)}$	Maximum Average Forward Rectified Current @ $T_C=100^\circ\text{C}$	3.0	A	
I_{FSM}	Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load(JEDEC Method)	80	A	
I_R	Maximum DC Reverse Current At Rated DC Blocking Voltage	$T_J = 25^\circ\text{C}$	1.0	mA
		$T_J = 100^\circ\text{C}$	80	
C_J	Typical Junction Capacitance(Note 1)	250	pF	
$R_{\theta JC}$	Typical Thermal Resistance(Note 2)	10	$^\circ\text{C/W}$	
T_J	Junction Temperature Range	-55 to +125	$^\circ\text{C}$	
T_{STG}	Storage Temperature Range	-55 to +150	$^\circ\text{C}$	

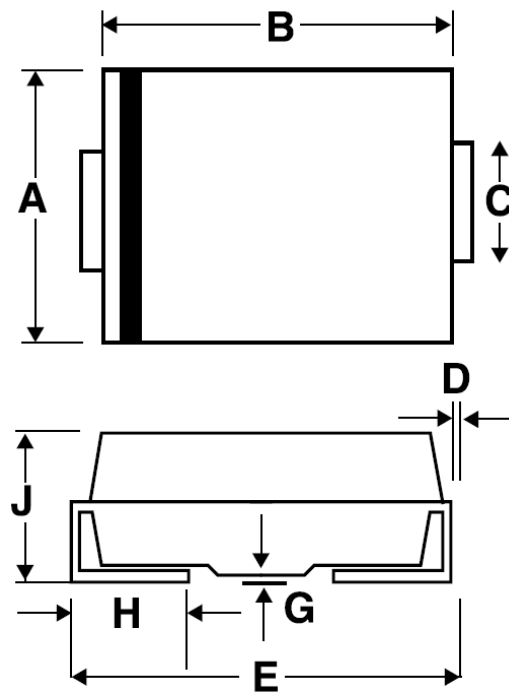
Notes: 1. Measured at 1.0MHz applied reverse voltage of 4.0V DC
 2. Thermal Resistance Junction to case.

Typical Characteristics



Package Dimension

SMA (DO-214AC)







Dimensions





Symbol	Millimeters		Inches	
	Min	Max	Min	Max
A	2.20	2.92	0.086	0.114
B	4.00	4.60	0.157	0.181
C	1.27	1.63	0.050	0.064
D	0.15	0.31	0.005	0.012
E	4.48	5.59	0.176	0.220
G	0.10	0.20	0.003	0.007
H	0.76	1.52	0.029	0.059
J	1.76	2.62	0.069	0.103



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