

GSDB240LA

Low VF Surface Mount Schottky Barrier Rectifiers

Product Description

Reverse Voltage 40V Forward Current 2.0A

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

Mechanical Data

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

Packages



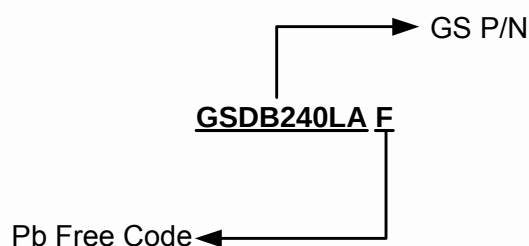
SMA(DO-214AC)

Marking Information

Part Number	Package	Marking
GSDB240LAF	SMA(DO-214AC)	WTYYWW B240LA.

※ "WT" GS Code & "YYWW" Date Code
※ "B240LA" GS P/N & "." Halogen Free

Ordering Information



Part Number	Package	Quantity
GSDB240LAF	SMA(DO-214AC)	5000 PCS

Maximum Ratings and Electrical Characteristics

Rating 25°C C Ambient Temperature Unless Otherwise Specified.

Single Phase Half Wave, 60Hz , Resistive or Inductive Load.

For Capacitive Load, Derate Current by 20%.

Symbol	Conditions	GSDB240LAF	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 2.0A DC	0.4	V
$I_{F(AV)}$	Maximum Average Forward Rectified Current @ $T_C=100^{\circ}C$	2.0	A
I_{FSM}	Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load(JEDEC Method)	50	A
I_R	Maximum DC Reverse Current At Rated DC Blocking Voltage	$T_J = 25^{\circ}C$	mA
		$T_J = 100^{\circ}C$	
C_J	Typical Junction Capacitance(Note 1)	200	pF
$R_{\theta JC}$	Typical Thermal Resistance(Note 2)	15	$^{\circ}C/W$
T_J	Junction Temperature Range	-55 to +125	$^{\circ}C$
T_{STG}	Storage Temperature Range	-55 to +150	$^{\circ}C$

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

2. Thermal Resistance Junction to case

Typical Characteristics

FIG.1- FORWARD CURRENT DERATING CURVE

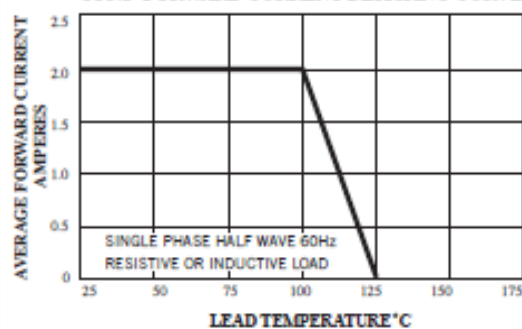


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

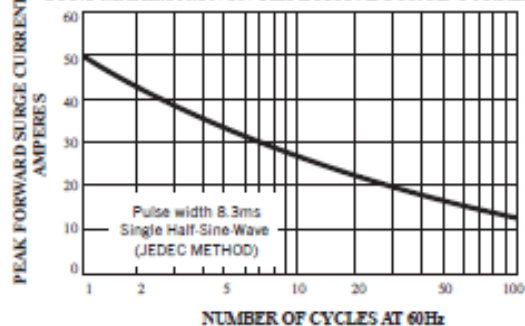


FIG.3-TYPICAL FORWARD CHARACTERISTICS

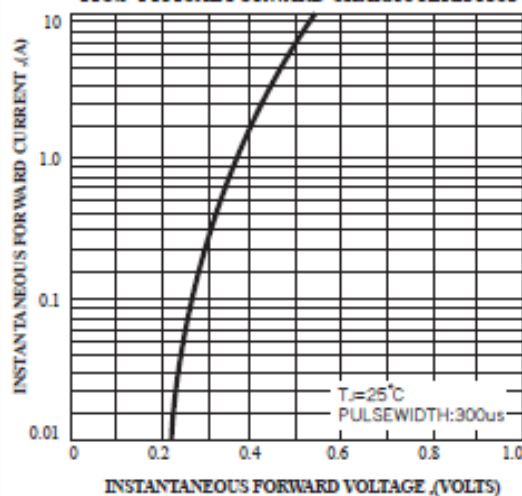


FIG.4-TYPICAL JUNCTION CAPACITANCE

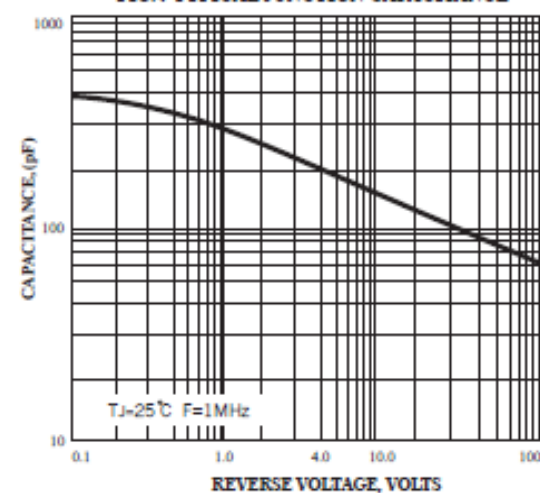
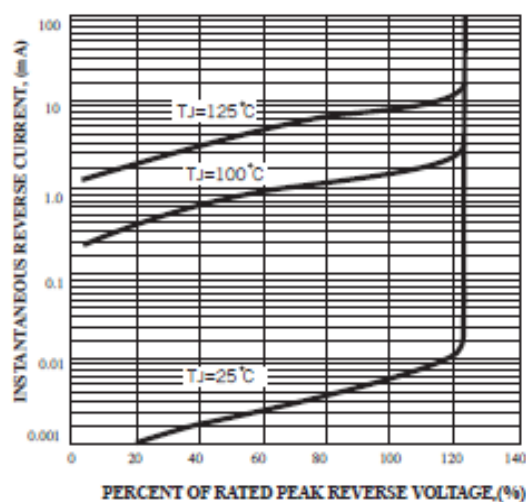
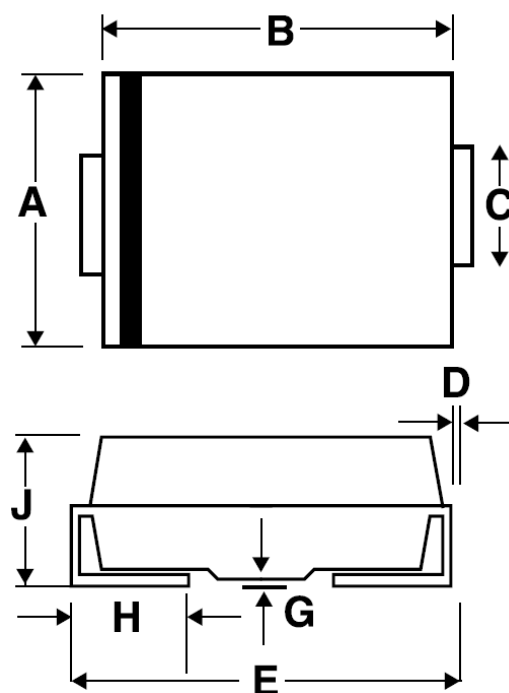


FIG.5-TYPICAL REVERSE CHARACTERISTICS



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

NOTICE

Information furnished is believed to be accurate and reliable. However Globaltech Semiconductor assumes no responsibility for the consequences of use of such information nor for any infringement of patents or other rights of third parties, which may result from its use. No license is granted by implication or otherwise under any patent or patent rights of Globaltech Semiconductor. Specifications mentioned in this publication are subject to change without notice. This publication supersedes and replaces all information without express written approval of Globaltech Semiconductor.

CONTACT US

GS Headquarter	
	4F.,No.43-1,Lane11,Sec.6,Minquan E.Rd NeiHu District Taipei City 114, Taiwan (R.O.C)
	886-2-2657-9980
	886-2-2657-3630
	sales_twn@gs-power.com

Wu-Xi Branch	
	No.21 Changjiang Rd., WND, Wuxi, Jiangsu, China (INFO. &. TECH. Science Park Building A 210 Room)
	86-510-85217051
	86-510-85211238
	sales_cn@gs-power.com

RD Division	
	824 Bolton Drive Milpitas. CA. 95035
	1-408-457-0587