

Features

- Schottky barrier diodes
- Low forward voltage drop
- Solder dip 260°C, 10 s
- Low profile, typical thickness 1.0mm
- Moisture sensitivity: level 1, per J-STD-020



Package: eSGB(SMAF)

Typical Applications

- Switch Mode Power Supply(SMPS)
- Reverse polarity protection
- Low voltage rectification
- Low power consumption applications



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

Parameter	Symbol	GLSL52	GLSL53	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	20	30	V
Maximum RMS Voltage	V _{RMS}	14	21	V
Maximum DC Blocking Voltage	V _{DC}	20	30	V
Maximum Average Forward Rectified Current	I _{F(AV)} ¹	5.0		A
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	80		A
Operating Junction And Storage Temperature Range	T _J , T _{STG}	- 55 to + 150		°C

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

Parameter	Test Conditions	Symbol	Typ.	Max.	Unit
Minimum Breakdown Voltage	T _A =25°C, I _R =1mA	V _{BR}	30		V
Maximum Instantaneous Forward Voltage	I _F =3A, T _A =25°C	V _F	0.35	0.36	
	I _F =5A, T _A =25°C		0.38	0.39	
	I _F =5A, T _A =125°C		0.30	0.32	
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _A =25°C	I _R	141.5	200.0	uA
	T _A =125°C		28.1	40	mA
Typical Junction Capacitance	4.0 V, 1 MHz	C _J	474		pF
Typical Thermal Resistance ¹	Juntion to Lead	R _{θJL}	12		°C/W

Note1: Mounted on FR-4 PCB with 8*8mm copper pads area

Ratings and Characteristics Curves

($T_A = 25\text{ }^\circ\text{C}$ unless otherwise noted)

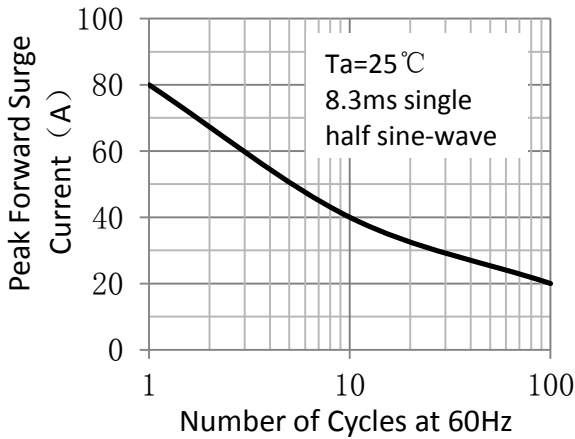


Figure 1. Maximum Non-Repetitive Peak Forward Surge Current

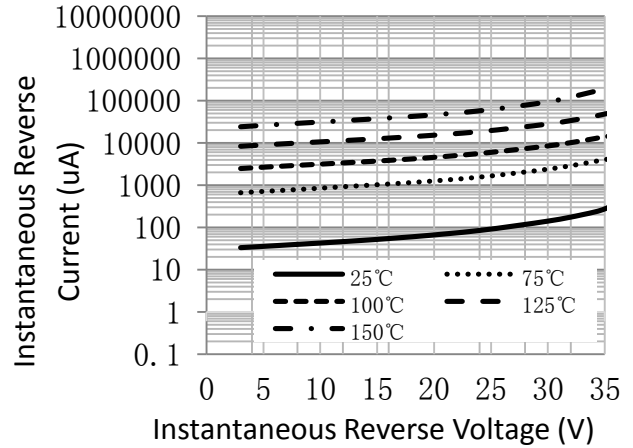


Figure 2. Typical Reverse Characteristics

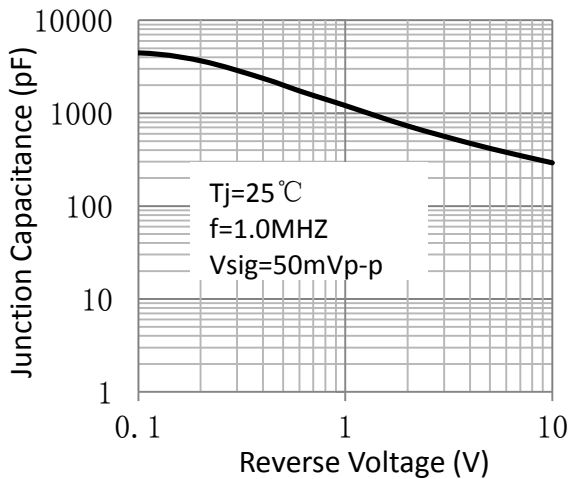


Figure 3. Typical Junction Capacitance

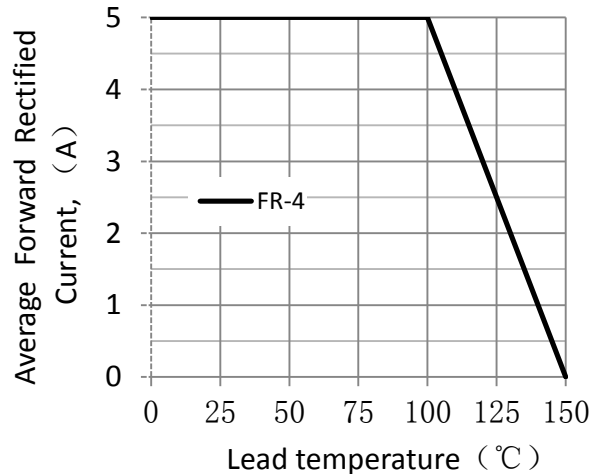


Figure 4. Forward Current Derating Curve

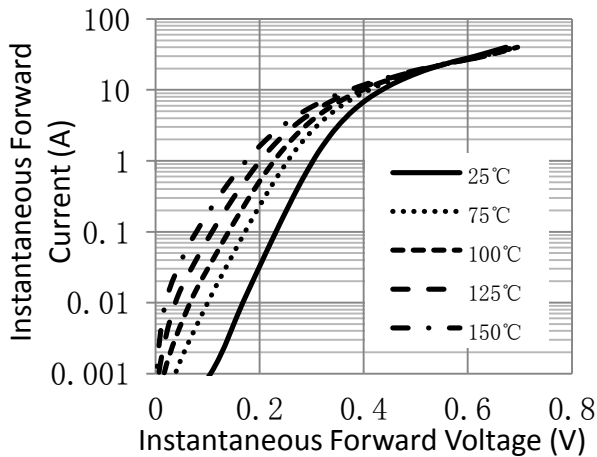


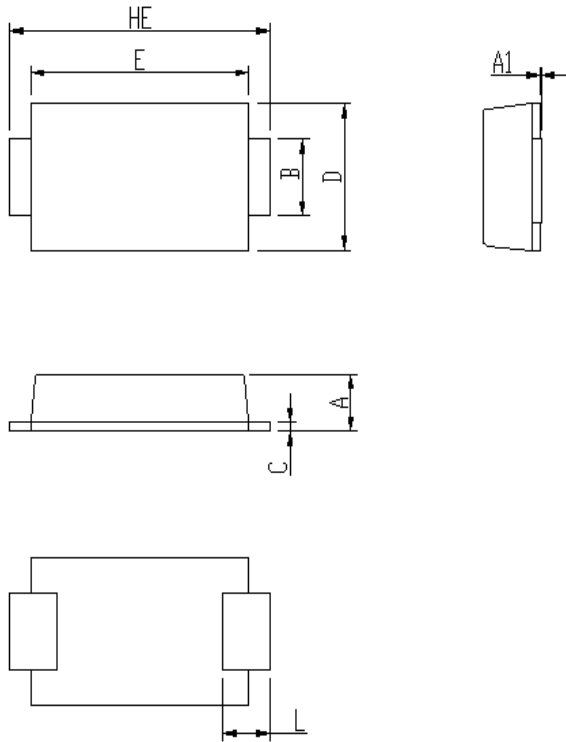
Figure 5. Typical Instantaneous Forward Characteristics

GLSL52-GLSL53

Surface Mount Schottky Rectifiers
 Reverse Voltage 20-30V Forward Current 5A

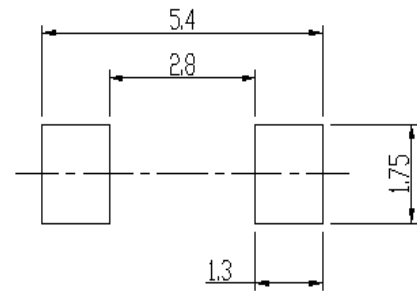
Package Outline Dimensions

eSGB(SMAF)



DIM	Unit: mm		Unit: inch	
	MIN	MAX	MIN	MAX
A	0.92	1.08	0.036	0.043
A1	0	0.1	0.000	0.004
B	1.25	1.45	0.049	0.057
C	0.1	0.25	0.004	0.010
D	2.6	2.8	0.102	0.110
E	4.1	4.3	0.161	0.169
L	0.7	1.1	0.028	0.043
HE	4.8	5.2	0.189	0.205

Soldering footprint



Packing Information

Reel Size	Quantity/Reel	Quantity/Inner Box	Quantity/Carton
13"	10K	20K	180K

Tape & Reel Specification

