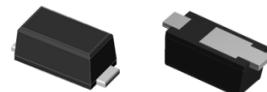


Features

- Heatsink structure
- Low profile, typical thickness 0.8mm
- Low forward voltage drop
- Super Low VF Schottky barrier diodes
- Moisture sensitivity: level 1, per J-STD-020
- High temperature soldering guaranteed: 260°C/10 seconds



Package: iSGA
 (SOD-123HS)



RoHS
 COMPLIANT

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

Parameter	Symbol	GSPSL32	GSPSL33	GSPSL34	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	V
Maximum RMS voltage	V_{RMS}	14	21	28	V
Maximum DC blocking voltage	V_{DC}	20	30	40	V
Maximum average forward rectified current	$I_{F(AV)}$		3.0		A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}		80		A
Rating for fusing($t < 8.3\text{ms}$)	I^2t		26.7		A^2sec
Operating junction temperature range	T_J		- 55 to + 150		°C
Storage temperature range	T_{STG}		- 55 to + 150		°C

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

Parameter	Test Conditions	Symbol	GSPSL32	GSPSL33	GSPSL34	Unit
Minimum breakdown voltage	$T_A=25^\circ\text{C}, I_R=1\text{mA}$	V_{BR}		40		V
Maximum instantaneous forward voltage	$I_F=1\text{A}, T_A=25^\circ\text{C}$	V_F		0.4 (typ.:0.36)		
	$I_F=2\text{A}, T_A=25^\circ\text{C}$			- (typ.:0.40)		
	$I_F=3\text{A}, T_A=25^\circ\text{C}$			0.45 (typ.:0.42)		
	$I_F=3\text{A}, T_A=125^\circ\text{C}$			0.38		
Maximum DC reverse current at rated DC blocking voltage	$T_A=25^\circ\text{C}$	I_R		150		uA
	$T_A=125^\circ\text{C}$			30		mA
Typical junction capacitance	4.0 V, 1 MHz	C_J		210		pF
Typical thermal resistance ¹⁾	junction to ambient	$R_{\theta JA}^{(1)}$		60		°C/W
	junction to lead	$R_{\theta JL}^{(1)}$		6		
	junction to case	$R_{\theta JC}^{(2)}$		28		

Note:1),The thermal resistance from junction to ambient or lead, mounted on P.C.B with 5×5mm copper pads,2 OZ,FR4 PCB

2),The thermal resistance from junction to case, mounted on P.C.B with recommended copper pads,2 OZ,FR4 PCB

Typical Electrical Characteristic Curves

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

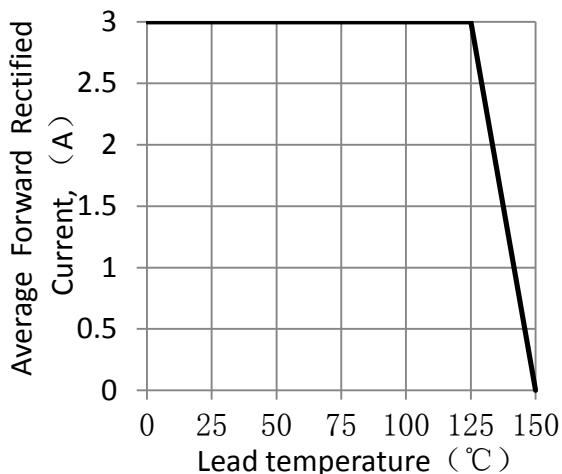


Figure 1. Forward Current Derating Curve

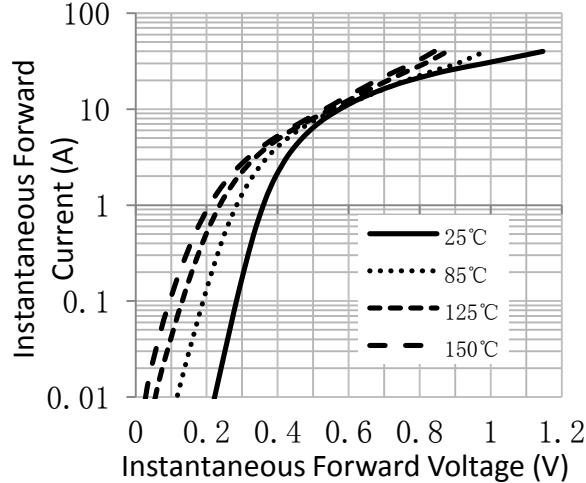


Figure 3. Typical Instantaneous Forward Characteristics

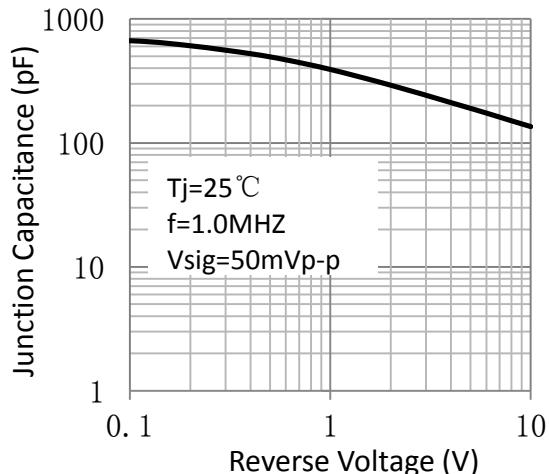


Figure 5. Typical Junction Capacitance

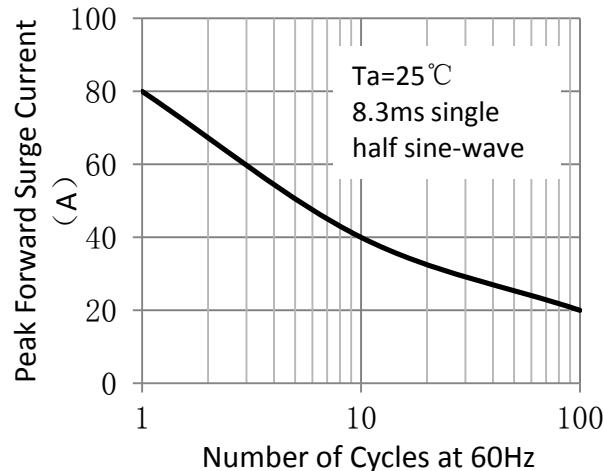


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

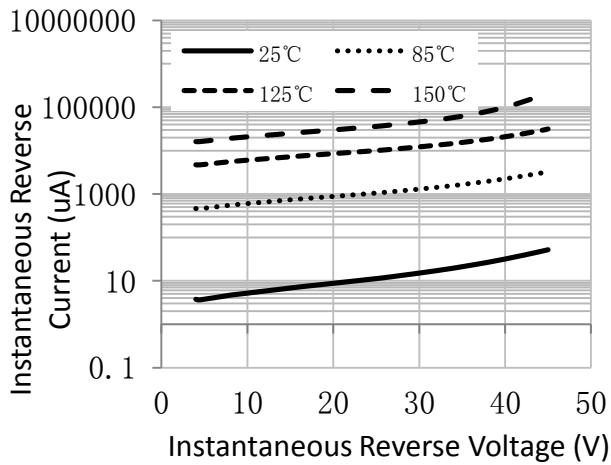
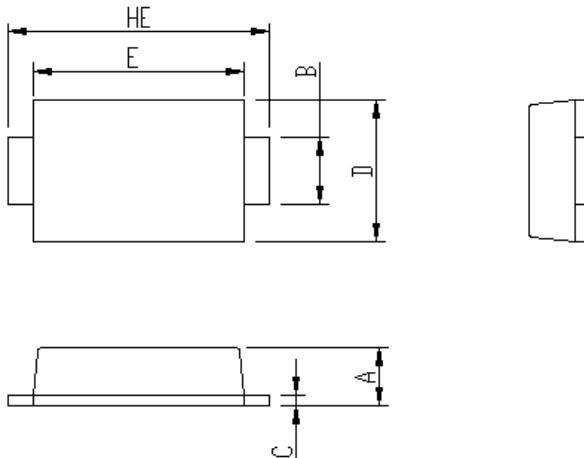


Figure 4. Typical Reverse Characteristics

GSPSL32 thru GSPSL34

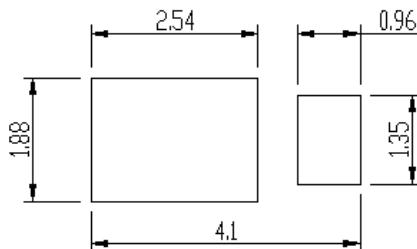
Surface Mount Schottky Rectifier
 Reverse Voltage 20-40V Forward Current 3A

Package Outline Dimensions



Package	iSGA	
Unit:mm	MIN	MAX
A	0.75	0.90
B	0.85	1.05
B1	0.85	1.05
C	0.1	0.25
D	1.9	2.1
E	2.9	3.1
L1	2.0	2.45
L2	0.4	0.85
L3	1.3	1.7
HE	3.5	3.9

Soldering footprint



Packing Information

Packing Quantities

Reel size	Quantity/reel	Quantity/inner Box	Quantity/Carton
7"	3K	30K	120K

Tape & Reel Specification

