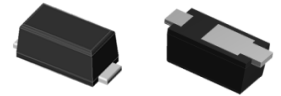


Features

- Low V_F Schottky rectifier
- Low profile, typical thickness 0.8mm
- Low leakage current
- Moisture sensitivity: level 1, per J-STD-020
- Heatsink structure
- High temperature soldering guaranteed: 260°C/10 seconds



Package: iSGA
(SOD-123HS)



RoHS
COMPLIANT

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

Parameter	Symbol	GSPSL24	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	40	V
Maximum RMS voltage	V _{RMS}	28	V
Maximum DC blocking voltage	V _{DC}	40	V
Maximum average forward rectified current	I _{F(AV)}	2.0	A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	50	A
Operating junction temperature range	T _J	- 55 to + 125	°C
Storage temperature range	T _{STG}	- 55 to + 150	°C

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

Parameter	Test Conditions	Symbol	GSPSL24	Unit
Maximum instantaneous forward voltage	I _F =1A, T _A =25°C	V _F	0.40	V
	I _F =2A, T _A =25°C		0.45	
Maximum DC reverse current at rated DC blocking voltage	T _A =25°C	I _R	200	µA
	T _A =100°C		20	mA
Typical junction capacitance	4.0 V, 1 MHz	C _J	120	pF
Typical thermal resistance ¹⁾	junction to ambient	R _{θJA}	100	°C/W
	junction to case	R _{θJC}	50	
	junction to mount	R _{θJM}	25	

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

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

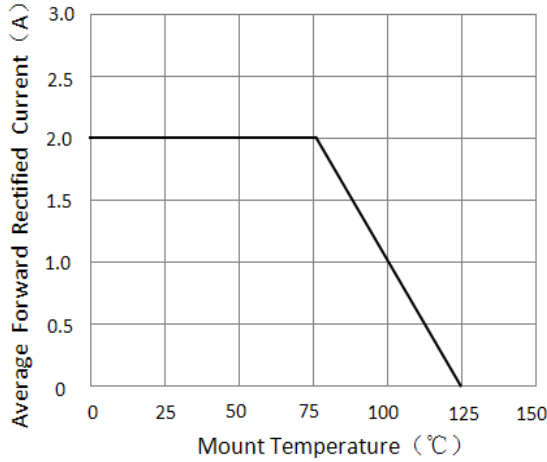


Figure 1. Forward Current Derating Curve

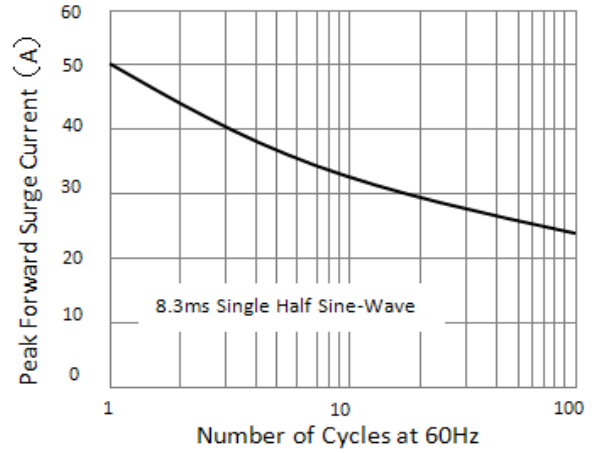


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

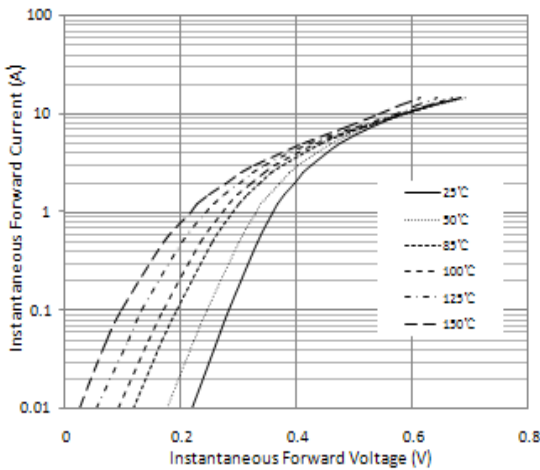


Figure 3. Typical Instantaneous Forward Characteristics

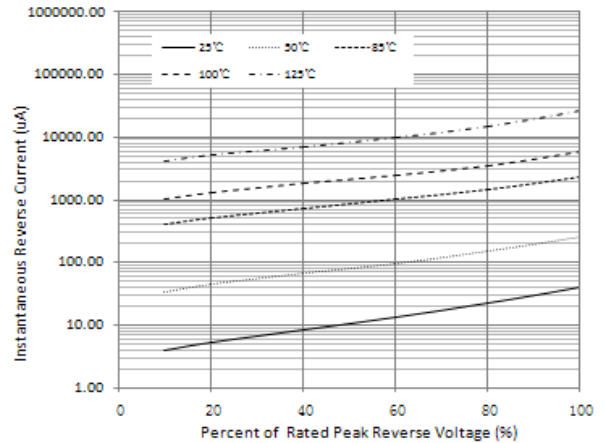


Figure 4. Typical Reverse Characteristics

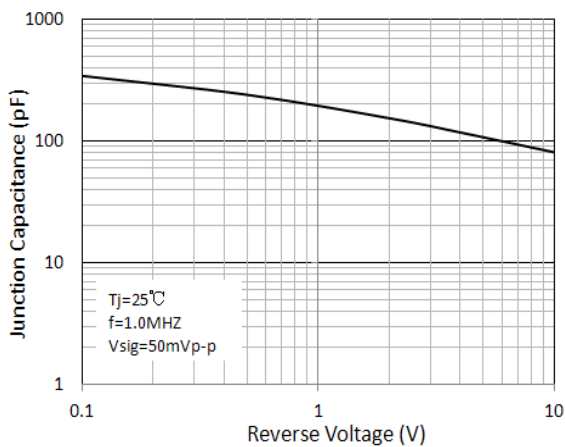
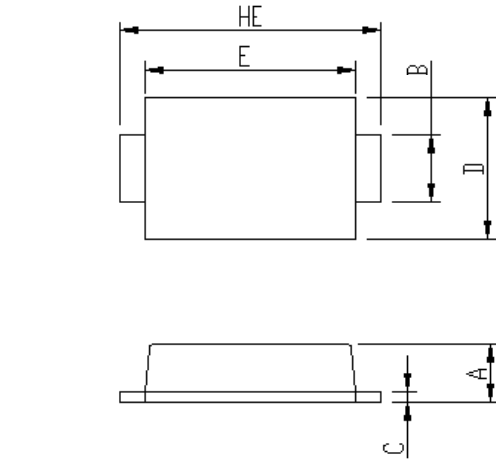


Figure 5. Typical Junction Capacitance

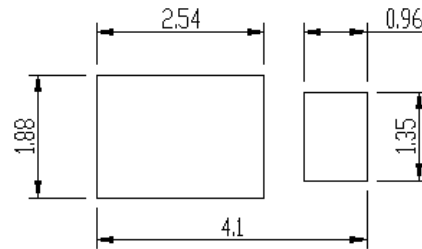
Package Outline Dimensions

iSGA(SOD-123HS)



Package	iSGA(SOD-123HS)	
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



Package Information

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

Tape & Reel Specification

