

# GP35 thru GP36

Schottky Barrier Rectifier  
 Reverse Voltage 50~60 V Forward Current 3.0 A

## 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)



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

Parameter	Symbol	GP35	GP36	Unit
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	50	60	V
Maximum RMS Voltage	$V_{RMS}$	35	42	V
Maximum DC Blocking Voltage	$V_{DC}$	50	60	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)	$I_{FSM}$	100		A
Rating for Fusing ( $t < 8.3\text{ms}$ )	$I^2t$	41.7		$\text{A}^2\text{sec}$
Operating Junction Temperature Range	$T_J$	-55 to +150		$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-55 to +150		$^\circ\text{C}$

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

Parameter	Test Conditions	Symbol	Typ.	Max.	Unit
Minimum Breakdown Voltage	$I_R=1\text{mA}$	$V_{BR}$	60		V
Instantaneous Forward Voltage	$I_F=3\text{A}, T_A=25^\circ\text{C}$	$V_F$	0.61	0.65	
	$I_F=3\text{A}, T_A=125^\circ\text{C}$	$V_F$	0.52	0.60	
Instantaneous Reverse Current at rated DC Blocking Voltage	$T_A=25^\circ\text{C}$	$I_R$	4.1	50	$\mu\text{A}$
	$T_A=125^\circ\text{C}$		3.8	10	$\text{mA}$
Typical Junction Capacitance	4.0 V, 1 MHz	$C_J$	160		pF
Typical Thermal Resistance	Junction to Ambient	$R_{\theta JA}^{1)}$	60		$^\circ\text{C}/\text{W}$
	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 5x5mm 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

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

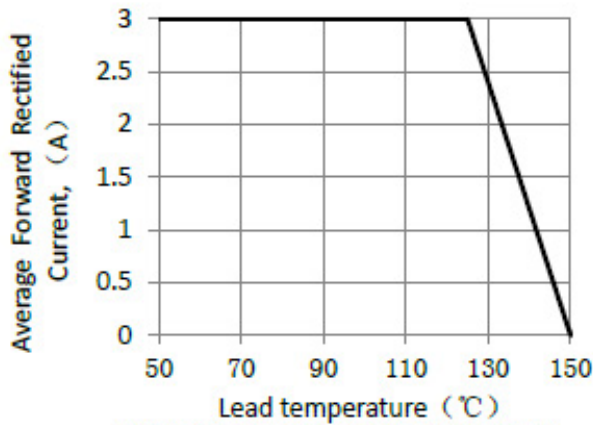


Figure 1. Forward Current Derating Curve

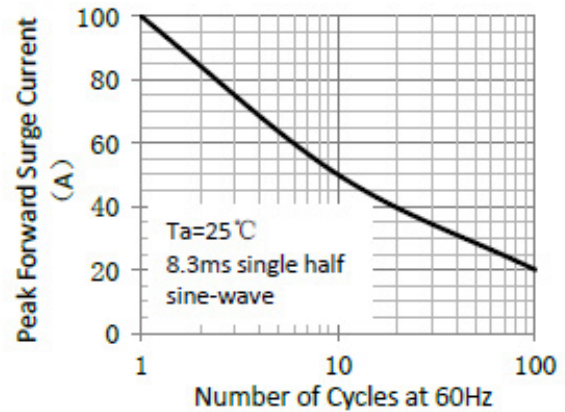


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

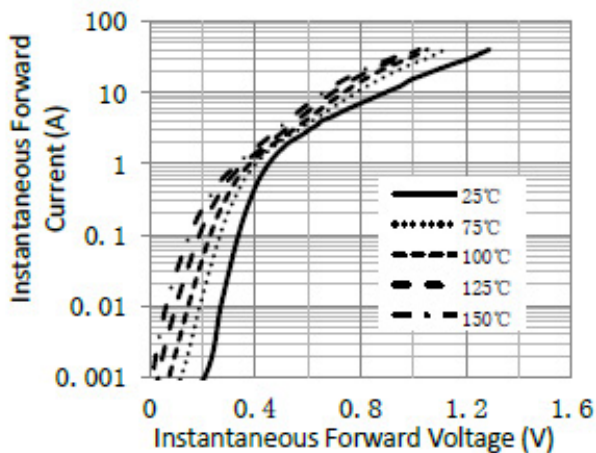


Figure 3. Typical Instantaneous Forward Characteristics

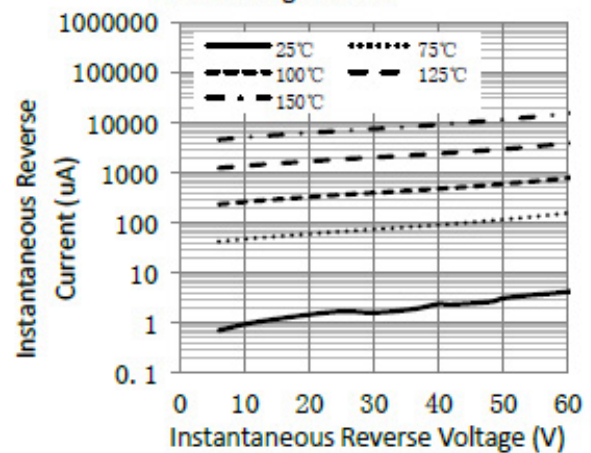


Figure 4. Typical Reverse Characteristics

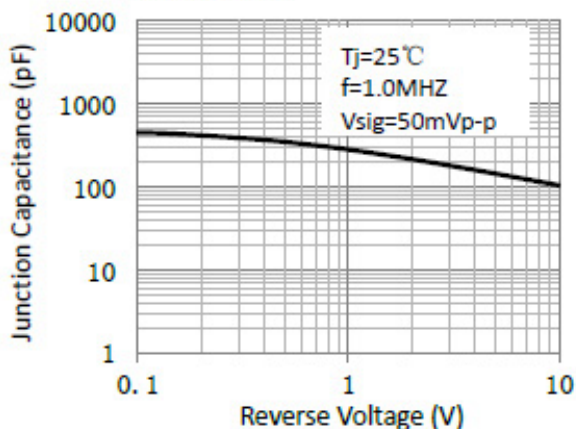


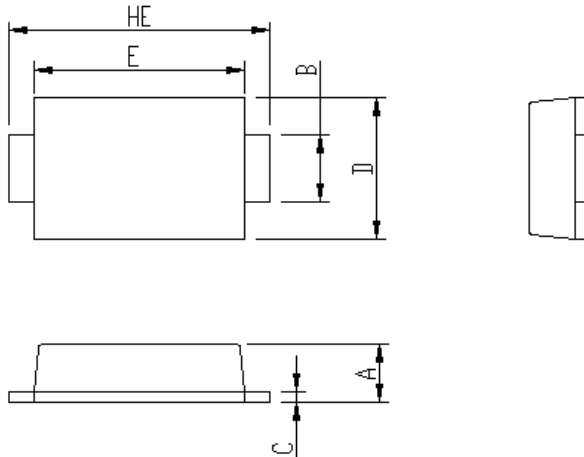
Figure 5. Typical Junction Capacitance

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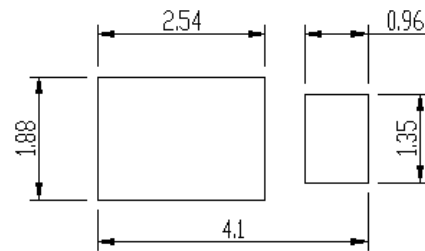
## Package Outline Dimensions

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

