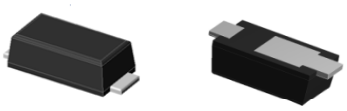
STEIFPOWER TECHNOLOGY

GP13

Schottky Barrier Rectifier
Reverse Voltage 30 V Forward Current 1.0 A

Features

- Super Low V_F Schottky recitifer
- Low profile, typical thickness 0.8mm
- Low forward voltage drop
- 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	Value	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	30	V
Maximum RMS Voltage	V_{RMS}	21	V
Maximum DC Blocking Voltage	V_{DC}	30	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	1.0	A
Peak Forward Surge Current 8.3ms Single Half Sine-wave Superimposed on Rated Load	I_{FSM}	30	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	Value	Unit
Maximum Instantaneous Forward Voltage	I_F=1A,T_A=25°C	V_F	0.5	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	T_A=25℃	I_R	150	μA
	T_A=125℃		15	mA
Typical Junction Capacitance	4.0 V, 1 MHz	C_J	80	pF
Typical Thermal Resistance[1)]	Junction to Ambient	$R_{\theta JA}$	75	℃/W
	Juntion to Case	$R_{\theta JC}$	55	
	Juntion to Lead	$R_{\theta JL}$	15	

Note:1) The thermal resistance from junction to ambient,case or lead, mounted on FR-4 P.C.B

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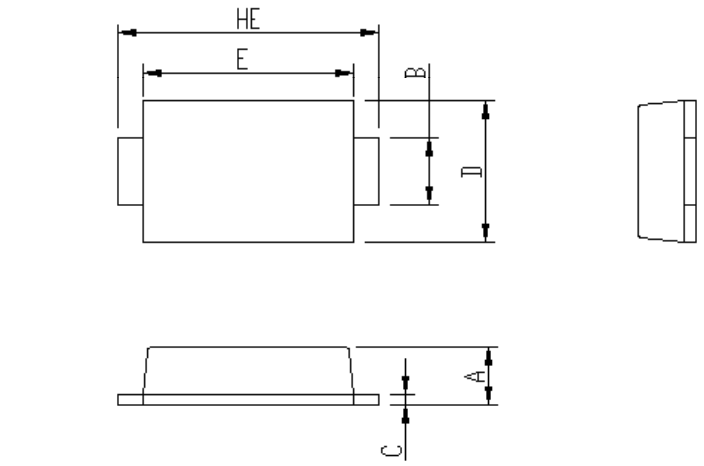
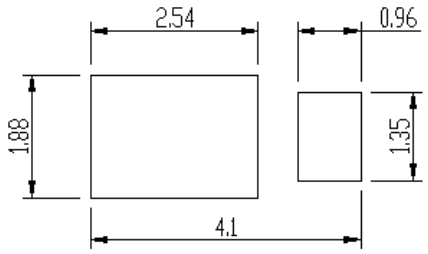
Package Outline Dimensions

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