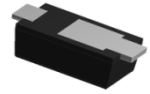
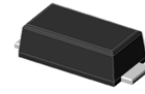


Features

- 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



RoHS
COMPLIANT



iSGA
(SOD-123HS)

Typical Applications

For use of fast switching in RF module, lighting, cellular phone, portable device, power supplies and other consumer applications.

Maximum Ratings (TA = 25 °C unless otherwise noted)					
Parameter	Symbol	PSL32	PSL33	PSL34	Unit
Maximum repetitive peak reverse voltage	VRRM	20	30	40	V
Maximum RMS voltage	VRMS	14	21	28	V
Maximum DC blocking voltage	VDC	20	30	40	V
Maximum average forward rectified current	IF(AV)	3.0			A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	IFSM	80			A
Rating for fusing(t<8.3ms)	I ² t	26.7			A ² sec
Operating junction temperature range	T _J	- 55 to + 150			°C
Storage temperature range	T _{STG}	- 55 to + 150			°C

Electrical Characteristics (TA = 25 °C unless otherwise noted)						
Parameter	Test Conditions	Symbol	PSL32	PSL33	PSL34	Unit
Minimum Breakdown voltage	Ta=25°C,IR=1mA	V _{BR}	40			Volts
Maximum instantaneous forward voltage	IF=1A,Ta=25°C	V _F	0.4	(typ.:0.36)		
	IF=2A,Ta=25°C		-	(typ.:0.40)		
	IF=3A,Ta=25°C		0.45	(typ.:0.42)		
	IF=3A,Ta=125°C		0.38			
Maximum DC reverse current at rated DC blocking voltage	Ta=25°C	I _R	150			uA
	Ta=125°C		30			mA
Typical junction capacitance	4.0 V, 1 MHz	C _J	210			pF
Typical thermal resistance ¹⁾	junction to ambient	R _{θJA} ¹⁾	60			°C/W
	junction to lead	R _{θJL} ¹⁾	6			
	junction to case	R _{θJC} 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

(TA = 25°C unless otherwise noted)

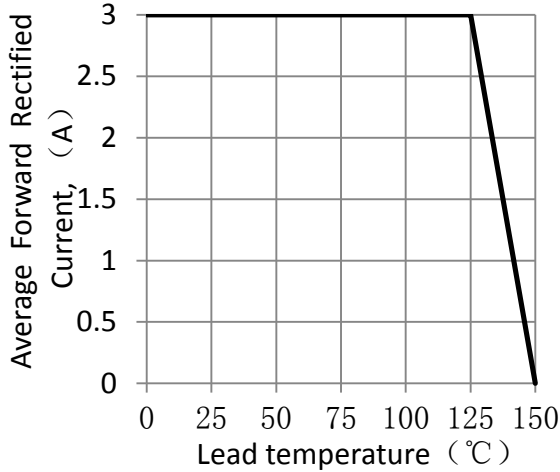


Figure 1. Forward Current Derating Curve

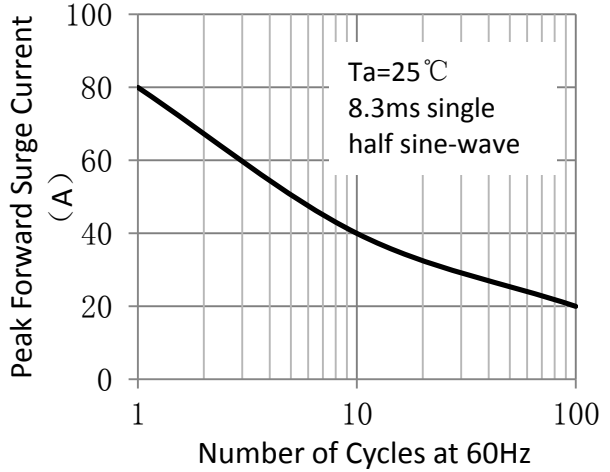


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

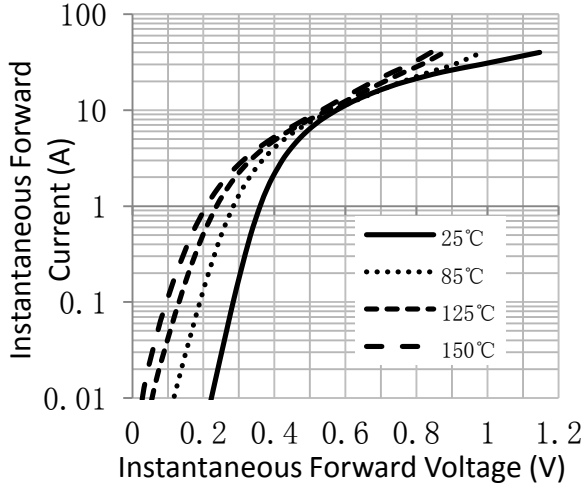


Figure 3. Typical Instantaneous Forward Characteristics

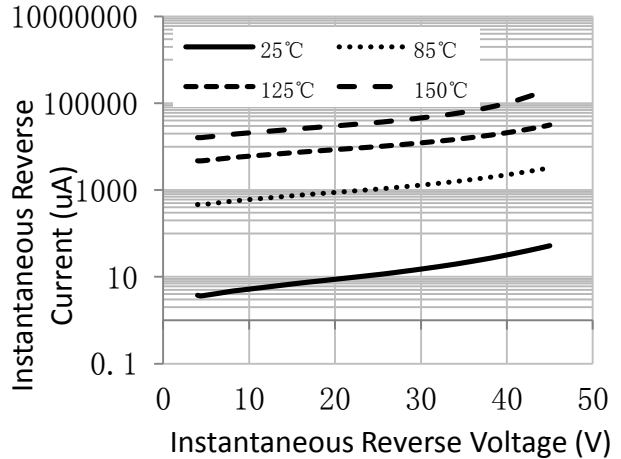


Figure 4. Typical Reverse Characteristics

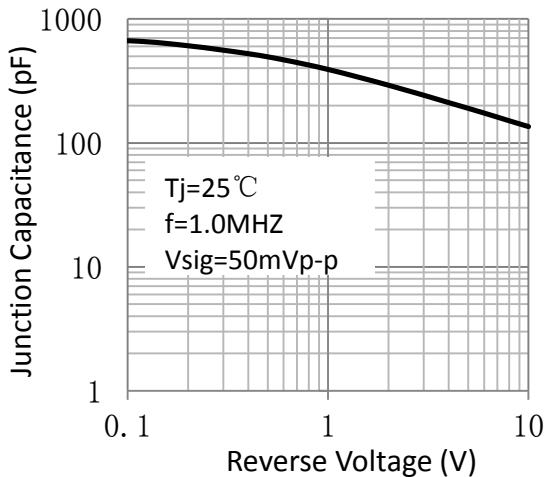
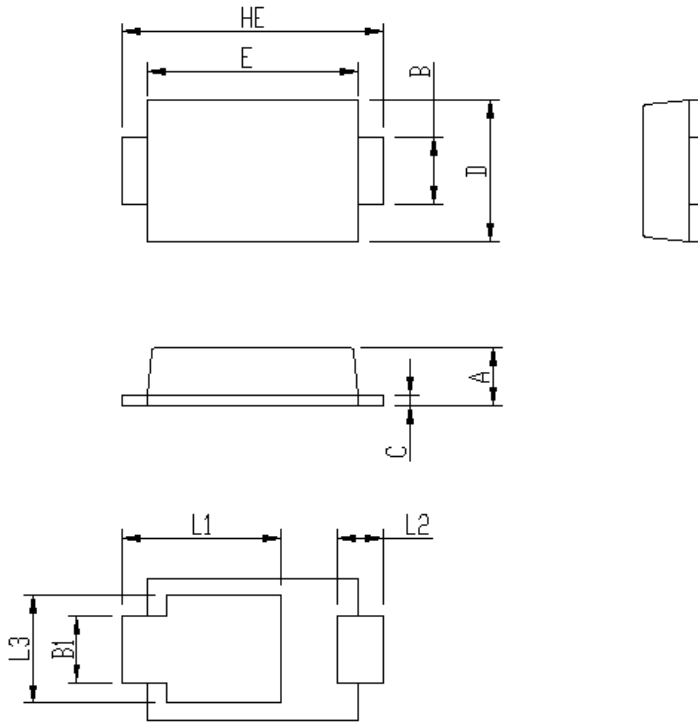


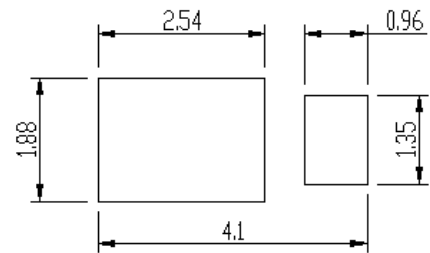
Figure 5. Typical Junction Capacitance

Package Outline Dimensions



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

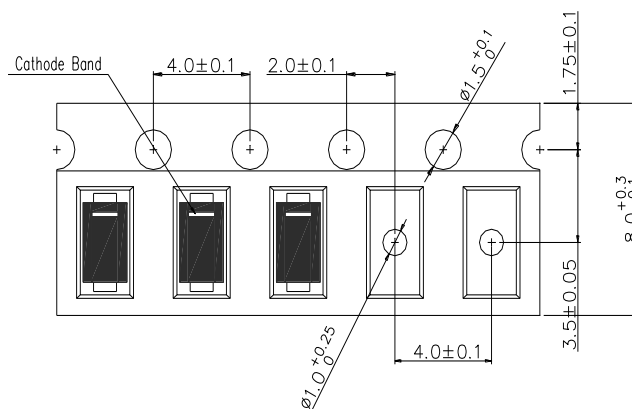


Packing Information

Packing quantities:

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

Tape & Reel Specification





PSL32 thru PSL34

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

Disclaimers

These materials are intended as a reference to assist our customers in the selection of the Suzhou Good-Ark product best suited to the customer's application; they do not convey any license under any intellectual property rights, or any other rights, belonging to Suzhou Good-Ark Electronics Co., Ltd. or a third party.

Suzhou Good-Ark Electronics Co., Ltd. assumes no responsibility for any damage, or infringement of any third-party's rights, originating in the use of any product data, diagrams, charts, programs, algorithms, or circuit application examples contained in these materials.

All information contained in these materials, including product data, diagrams, charts, programs and algorithms represents information on products at the time of publication of these materials, and are subject to change by Suzhou Good-Ark Electronics Co., Ltd. without notice due to product improvements or other reasons. It is therefore recommended that customers contact Suzhou Good-Ark Electronics Co., Ltd. or an authorized Suzhou Good-Ark Electronics Co., Ltd. for the latest product information before purchasing a product listed herein. The information described here may contain technical inaccuracies or typographical errors. Suzhou Good-Ark Electronics Co., Ltd. assumes no responsibility for any damage, liability, or other loss rising from these inaccuracies or errors. Please also pay attention to information published by Suzhou Good-Ark Electronics Co., Ltd. by various means, including our website home page.
(<http://www.goodark.com>)

When using any or all of the information contained in these materials, including product data, diagrams, charts, programs, and algorithms, Please be sure to evaluate all information as a total system before making a final decision on the applicability of the information and products. Suzhou Good-Ark Electronics Co., Ltd. assumes no responsibility for any damage, liability or other loss resulting from the information contained herein.

The prior written approval of Suzhou Good-Ark Electronics Co., Ltd. is necessary to reprint or reproduce in whole or in part these materials.

Please contact Suzhou Good-Ark Electronics Co., Ltd. or an authorized distributor for further details on these materials or the products contained herein.