

Features

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

Typical Applications

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

Maximum Ratings (TA = 25 °C unless otherwise noted)					
Parameter	Symbol	PS2100	Unit		
Maximum repetitive peak reverse voltage	VRRM	100	V		
Maximum RMS voltage	VRMS	70	V		
Maximum DC blocking voltage	VDC	100	V		
Maximum average forward rectified current	IF(AV)	2.0	А		
Peak forward surge current 8.3 ms single half sine- wave superimposed on rated load	IFSM	50	А		
Rating for fusing(t<8.3ms)	l ² t	10	A ² sec		
Operating junction temperature range	TJ	- 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	Тур.	Max.	Unit	
Minimum Breakdown voltage	Ta=25°C,IR=1mA	V _{BR}	100			
Instantaneous forward voltage	IF=2A,Ta=25℃	V _F	0.77	0.80	Volts	
	IF=2A,Ta=125℃	V _F	0.62	0.65		
Instantaneous reverse current	Ta=25°C	- I _R	0.39	5	uA	
at rated DC blocking voltage	Ta=125°C		181	500	uA	
Typical junction capacitance	4.0 V, 1 MHz	CJ	60		pF	
Typical thermal resistance	juntion to ambient	$R_{\theta JA}^{1)}$	65			
	juntion to lead	$R_{\theta JL}^{1)}$	9		°C/W	
	juntion to case	$R_{\theta JC}^{2)}$	3	5		

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



COMPLIANT

iSGA (SOD-123HS)



Ratings and Characteristics Curves

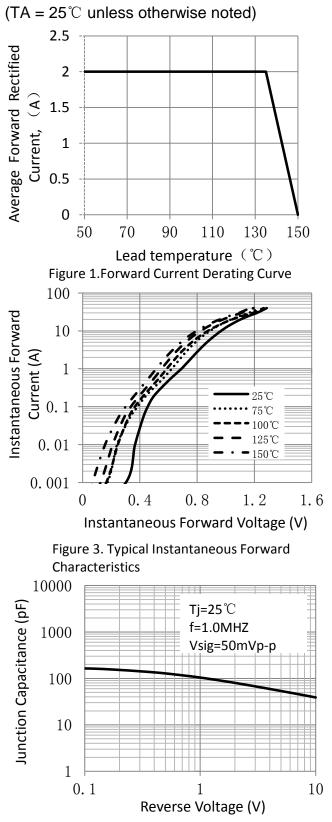
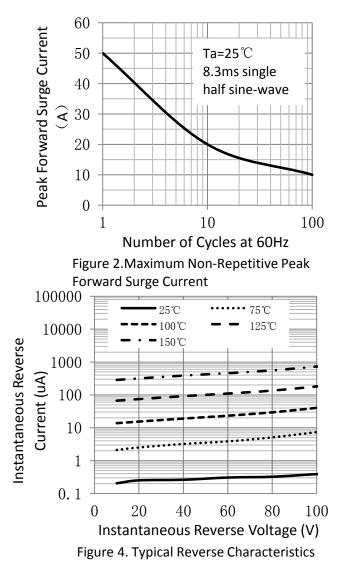


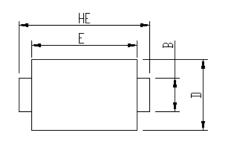
Figure 5. Typical Junction Capacitance

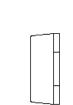


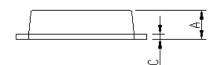


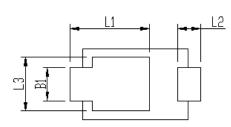
PS2100 Surface Mount Schottky Rectifier <u>Reverse Voltage 100V</u> Forward Current 2A

Package Outline Dimensions



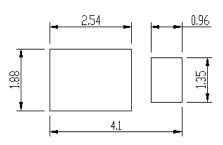






Package	iSGA		
Unit:mm	MIN	MAX	
А	0.75	0.90	
В	0.85	1.05	
B1	0.85	1.05	
С	0.1	0.25	
D	1.9	2.1	
E	2.9	3.1	
L1	2.0	2.45	
L2	0.4	0.85	
L3	1.3	1.7	
HE	3.5	3.9	

Soldering footprint

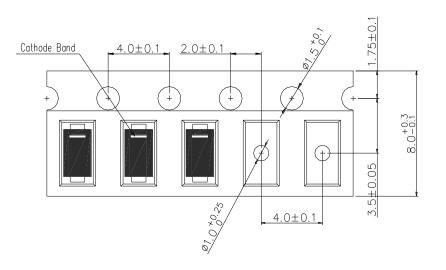


Packing Information

Packing quantities:

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

Tape & Reel Specification





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