1SS106

Silicon Schottky Barrier Diode for Various Detector, High Speed Switching

HITACHI

勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-54151736 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw ADE-208-153A (Z) Rev. 1 Oct. 1998

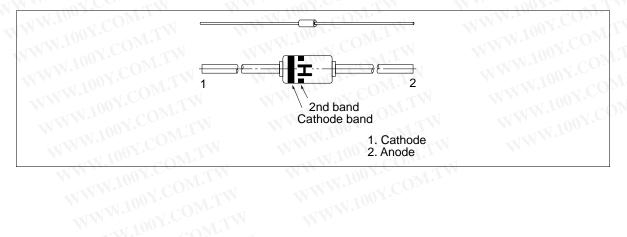
Features

- Detection efficiency is very good.
- Small temperature coefficient.
- High reliability with glass seal.

Ordering Information

Type No.	Cathode	2nd band	Mark	Package Code
1SS106	White	White	Н	DO-35

Outline





1SS106

Absolute Maximum Ratings (Ta = 25°C)

Item COM-	Symbol	Value	Unit
Reverse voltage	V_R	10 0	V
Average rectified current	I _o	30 COM-1	mA
Junction temperature	Tj Tj	125	°C
Storage temperature	Tstg	-55 to +125	°C

Electrical Characteristics (Ta = 25°C)

Electrical Chara	cteristics (Ta = 2				
Item	Symbol	Min	Тур	Max	Unit	Test Condition
Forward current	I _F	4.5	JOH T	r vi	mA	$V_F = 1V$
Reverse current	IR	100 X	$C_{\overline{\mathbf{O}}_{Mr}}$	70	μΑ	$V_R = 6V$
Capacitance	C	1700	1.COM	1.5	pF	$V_R = 1V$, $f = 1MHz$
Rectifier efficiency	η	70	V.TO	M.IW	%	Vin = 2Vrms, f = 40MHz, $R_L = 5k\Omega$ $C_L = 20pF$
ESD-Capability *1	- 4/1	100	00 1 .C	OM.TY	V	C = 200pF, Both forward and reverse direction 1 pulse.

Notes: 1. Failure criterion; $I_R \ge 140\mu A$ at $V_R = 6V$ NW.100Y. WW.100Y.COM.T

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Main Characteristic

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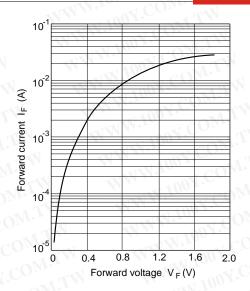


Fig.1 Forward current Vs. Forward voltage

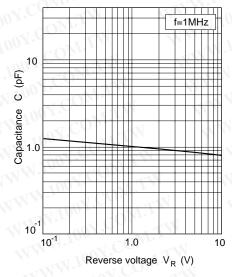


Fig.3 Capacitance Vs. Reverse voltage

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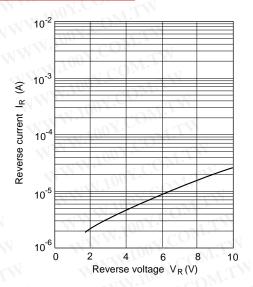


Fig.2 Reverse current Vs. Reverse voltage

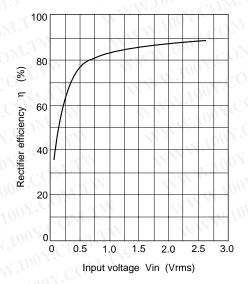


Fig.4 Rectifier efficiency Vs. Input voltage Vin

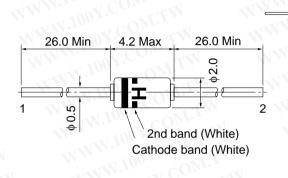
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Package Dimensions

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- 1. Cathode 2. Anode
- Hitachi Code DO-35

 JEDECCode DO-35

 EIAJCode SC-48

 Weight(g) 0.13

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