

# 1S2075(K)

Silicon Epitaxial Planar Diode for High Speed Switching

## HITACHI

ADE-208-144A (Z)

Rev. 1

Aug. 1995

### Features

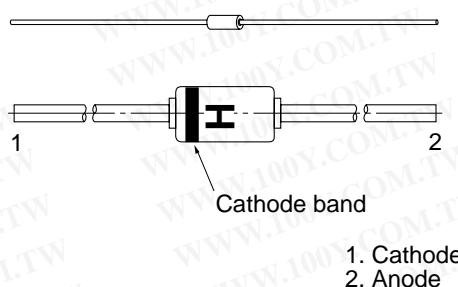
- Low capacitance. ( $C = 3.5\text{pF}$  max)
- Short reverse recovery time. ( $t_{rr} = 8.0\text{ns}$  max)
- High reliability with glass seal.

勝特力材料 886-3-5753170  
胜特力电子(上海) 86-21-34970699  
胜特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)

### Ordering Information

Type No.	Cathode band	Mark	Package Code
1S2075(K)	Green	H	DO-35

### Outline



**Absolute Maximum Ratings (Ta = 25°C)**

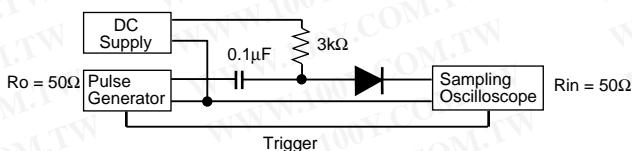
Item	Symbol	Value	Unit
Peak reverse voltage	V <sub>RM</sub>	35	V
Reverse voltage	V <sub>R</sub>	30	V
Peak forward current	I <sub>FM</sub>	450	mA
Non-Repetitive peak forward surge current	I <sub>FSM</sub> *	600	mA
Average forward current	I <sub>O</sub>	100	mA
Power dissipation	Pd	250	mW
Junction temperature	T <sub>j</sub>	175	°C
Storage temperature	T <sub>stg</sub>	-65 to +175	°C

Note: Within 1s forward surge current.

**Electrical Characteristics (Ta = 25°C)**

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Forward voltage	V <sub>F</sub>	—	—	0.8	V	I <sub>F</sub> = 10mA
Reverse current	I <sub>R</sub>	—	—	0.1	µA	V <sub>R</sub> = 30V
Capacitance	C	—	—	3.5	pF	V <sub>R</sub> = 1V, f = 1MHz
Reverse recovery time	t <sub>rr</sub> *	—	—	8.0	ns	I <sub>F</sub> = I <sub>R</sub> = 10mA, Irr = 1mA

Note: Reverse recovery time test circuit



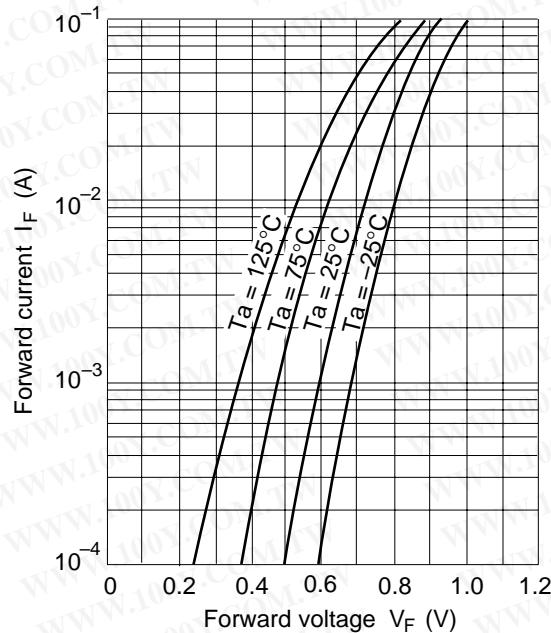


Fig.1 Forward current Vs. Forward voltage

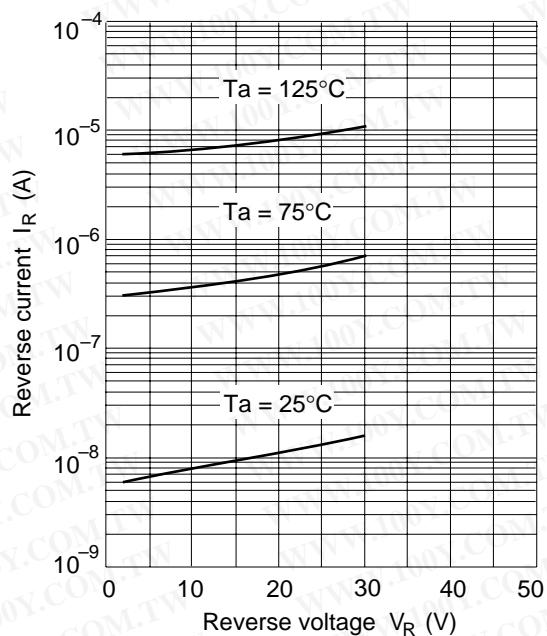
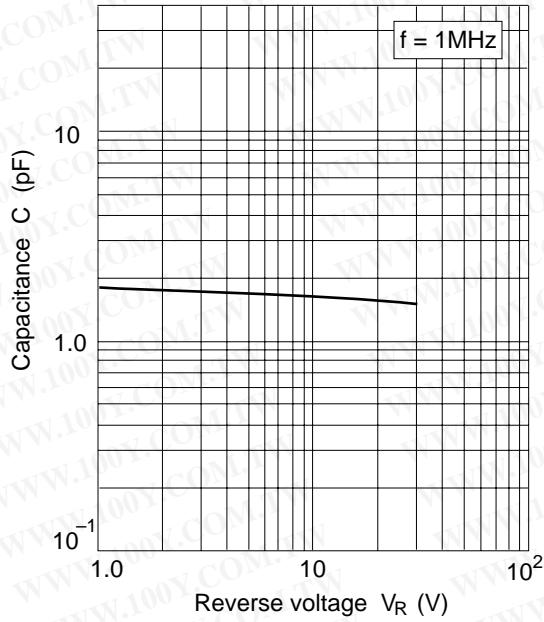


Fig.2 Reverse current Vs. Reverse voltage

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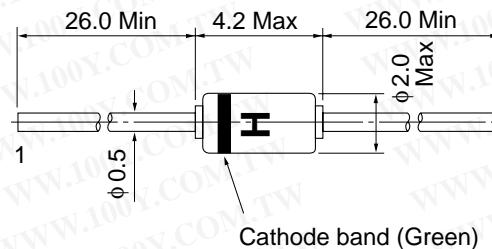


**Fig.3 Capacitance Vs. Reverse voltage**

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**Package Dimensions**

Unit: mm



- 1 Cathode  
2 Anode

HITACHI Code	DO-35
JEDEC Code	DO-35
EIAJ Code	SC-48
Weight (g)	0.13

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