

1SS84

Silicon Epitaxial Planar Diode for High Speed Switching

HITACHI

Rev. 1
Aug. 1995

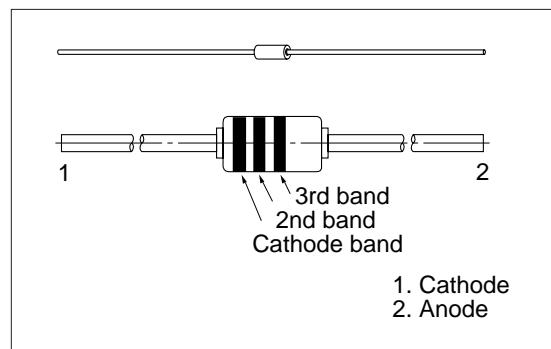
Features

- Low reverse current.
- High reliability with glass seal.

Ordering Information

Type No.	Cathode	2nd band	3rd band	Package Code
1SS84	Light Blue	Dark Green	Dark Green	DO-35

Outline



Absolute Maximum Ratings (Ta = 25°C)

Item	Symbol	Value	Unit
Peak reverse voltage	V _{RM}	75	V
Reverse voltage	V _R	70	V
Peak forward current	I _{FM}	450	mA
Non-Repetitive peak forward surge current	I _{FSM} *	1	A
Average forward current	I _o	150	mA
Power dissipation	P _d	250	mW
Junction temperature	T _j	175	°C
Storage temperature	T _{stg}	-65 to +175	°C

* Within 1s forward surge current.

Electrical Characteristics (Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Forward voltage	V _F	—	—	0.8	V	I _F = 10 mA
	I _{R1}	—	0.3	3		V _R = 0.3 V
Reverse current	I _{R2}	—	—	10	nA	V _R = 20 V
	I _{R3}	—	—	100		V _R = 55 V
Capacitance	C	—	—	5	pF	V _R = 1 V, f = 1 MHz
Reverse recovery time	t _{rr}	—	—	50	ns	I _F =I _R =10mA, I _{rr} =1mA, R _L =100Ω

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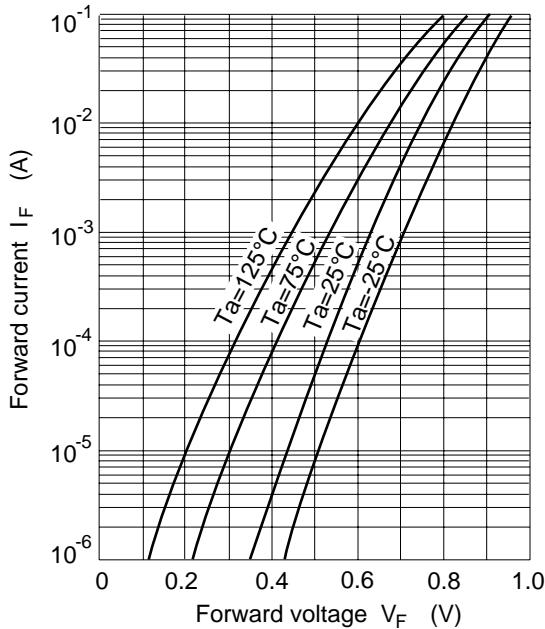


Fig.1 Forward current Vs.
Forward voltage

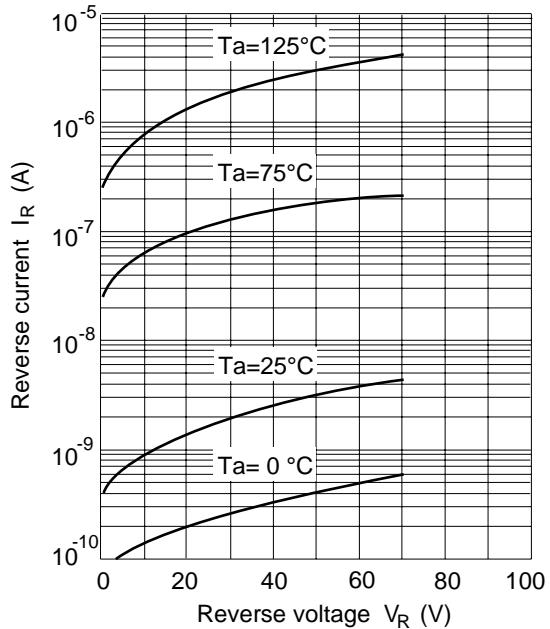


Fig.2 Reverse current Vs.
Reverse voltage

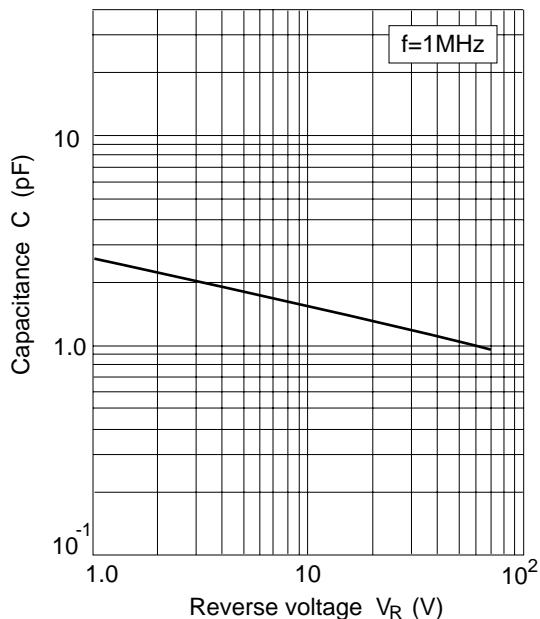
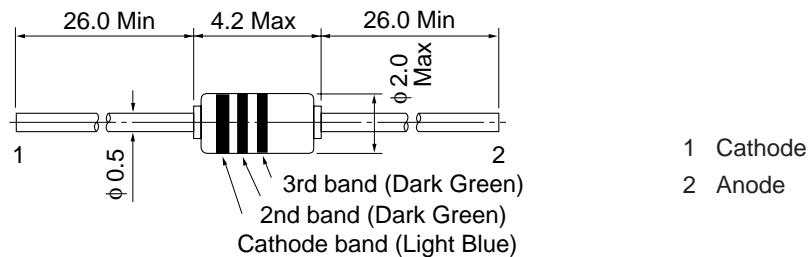


Fig.3 Capacitance Vs.
Reverse voltage

Package Dimensions

Unit: mm



1 Cathode
2 Anode

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