

1SS82

Silicon Epitaxial Planar Diode for High Voltage Switching

HITACHI

ADE-208-149A (Z)

Rev. 1

Jul. 1995

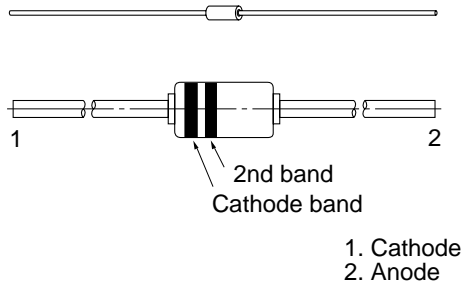
Features

- High reverse voltage. ($V_R = 200V$)
- High reliability with glass seal.

Ordering Information

Type No.	Cathode band	2nd band	Package Code
1SS82	Verdure	Light Blue	DO-35

Outline



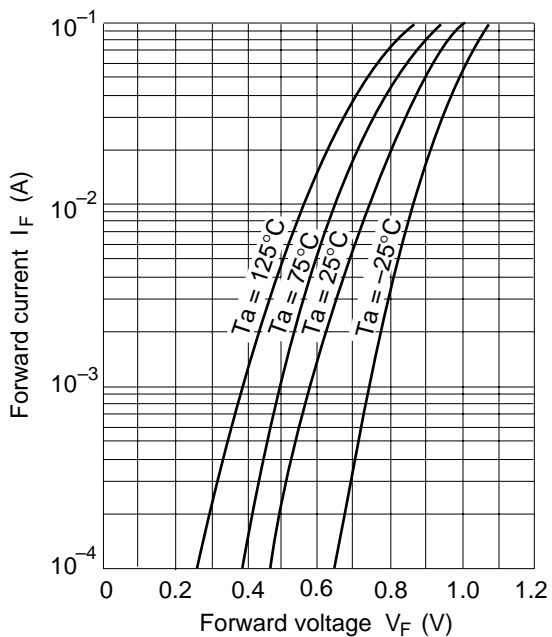
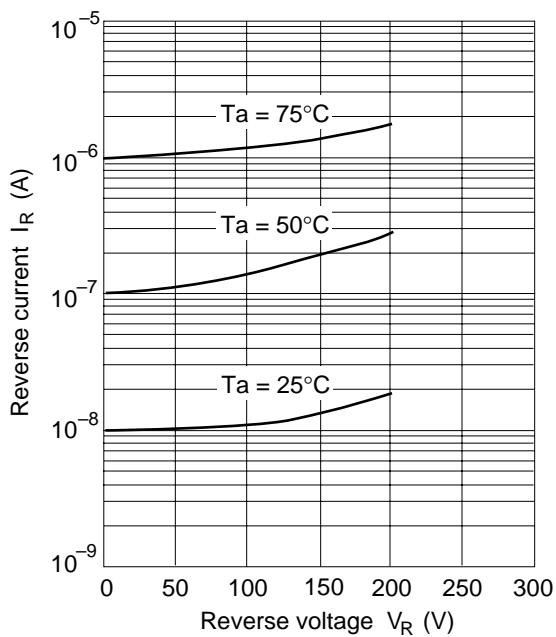
Absolute Maximum Ratings*² (T_a = 25°C)

Item	Symbol	Value	Unit
Peak reverse voltage	V _{RM} * ¹	250	V
Reverse voltage	V _R	200	V
Peak forward current	I _{FM}	625	mA
Non-Repetitive peak forward surge current	I _{FSM} * ²	1	A
Average forward current	I _O	200	mA
Power dissipation	Pd	400	mW
Junction temperature	T _j	175	°C
Storage temperature	T _{stg}	-65 to +175	°C

Notes: 1. Reverse voltage in excess of peak reverse voltage may deteriorate electrical characteristic.
 2. Within 1s forward surge current.

Electrical Characteristics (T_a = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Forward voltage	V _F	—	—	1.0	V	I _F = 100mA
Reverse current	I _{R1}	—	—	0.2	μA	V _R = 200V
	I _{R2}	—	—	100		V _R = 250V
Capacitance	C	—	1.5	—	pF	V _R = 0V, f = 1MHz
Reverse recovery time	t _{rr}	—	—	100	ns	I _F = I _R = 30mA, I _{rr} = 3mA, R _L = 100Ω

**Fig.1 Forward current Vs. Forward voltage****Fig.2 Reverse current Vs. Reverse voltage**

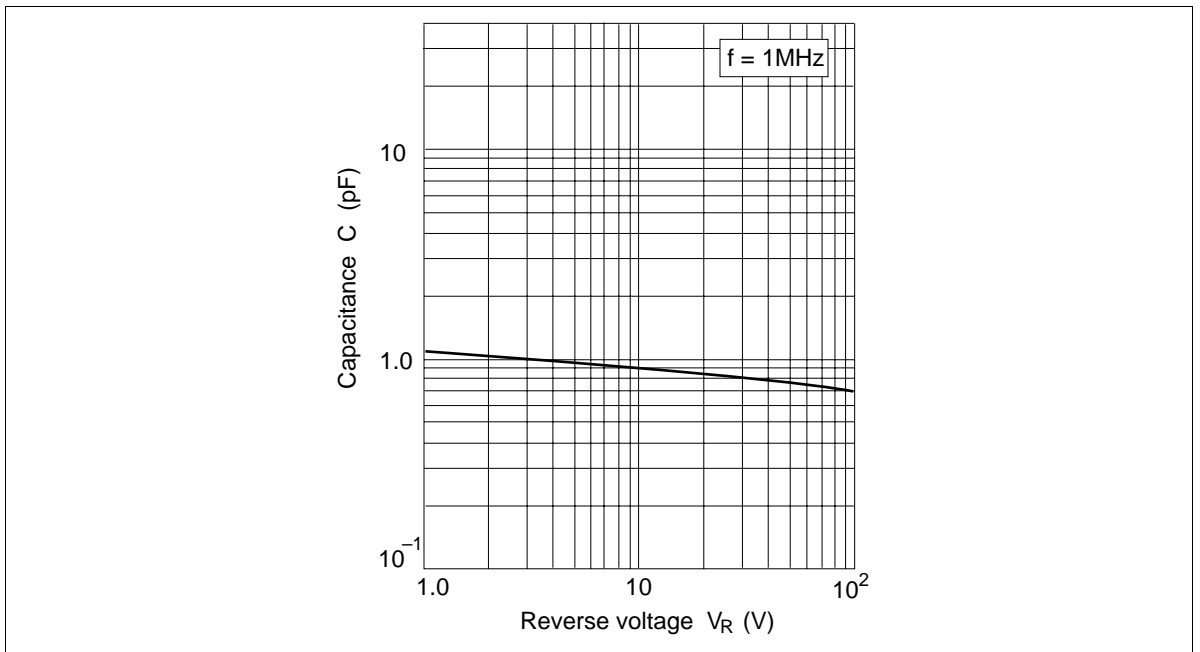
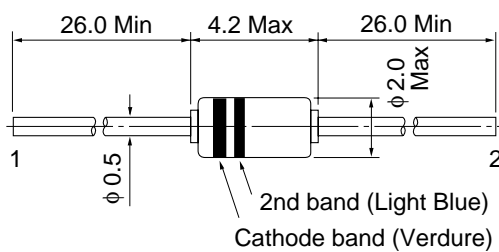


Fig.3 Capacitance Vs. Reverse voltage

Package Dimensions

Unit: mm



1 Cathode
2 Anode

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

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