1SS82

Silicon Epitaxial Planar Diode for High Voltage Switching

HITACHI

ADE-208-149B (Z)

Rev.2 Oct. 2000

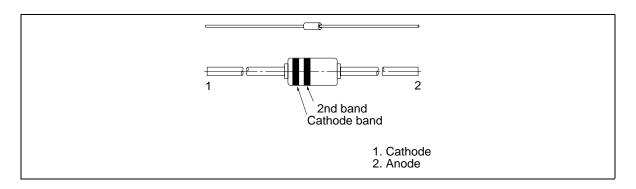
Features

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

Ordering Information

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

Outline





1SS82

Absolute Maximum Ratings

 $(Ta = 25^{\circ}C)$

Item	Symbol	Value	Unit	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	А		
Average forward current	I _o	200	mA		
Power dissipation	Pd	400	mW		
Junction temperature	Tj	175	°C		
Storage temperature	Tstg	-65 to +175	°C		

Notes: 1. Reverse voltage in excess of peak reverse voltage may deteriorate electrical characteristic.

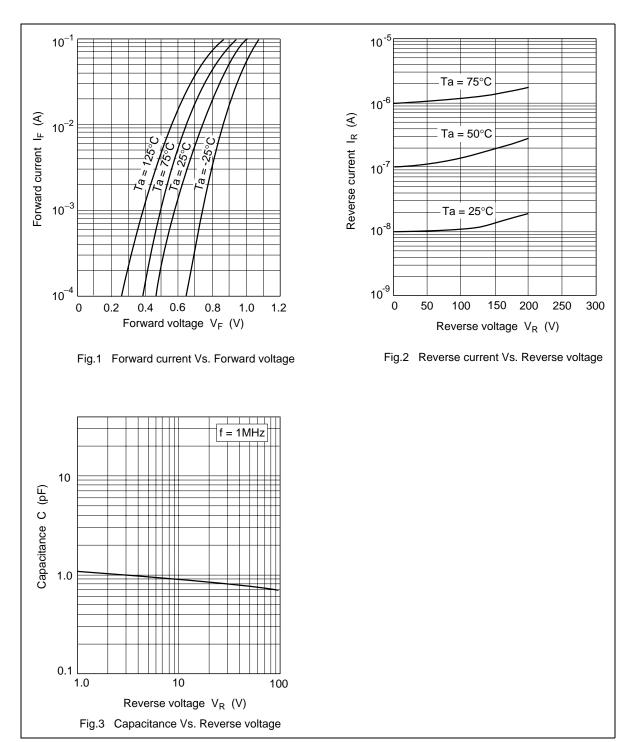
2. Within 1s forward surge current.

Electrical Characteristics

 $(Ta = 25^{\circ}C)$

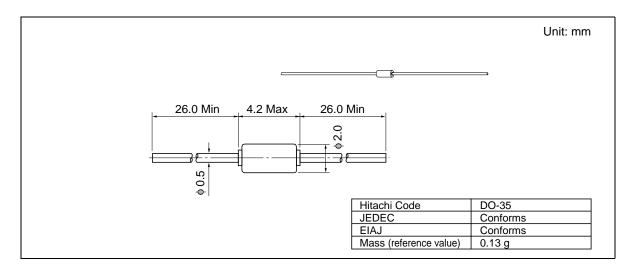
Item	Symbol	Min	Тур	Max	Unit	Test Condition
Forward voltage	V _F	_	_	1.0	V	I _F = 100 mA
Reverse current	I _{R1}		_	0.2	μΑ	V _R = 200 V
	I _{R2}		_	100		V _R = 250 V
Capacitance	С	_	1.5	_	pF	$V_R = 0 \text{ V, f} = 1 \text{ MHz}$
Reverse recovery time	t _{rr}	_	_	100	ns	$I_F = I_R = 30 \text{ mA}, \text{ Irr} = 3 \text{ mA}, R_L = 100 \Omega$

Main Characteristic



1SS82

Package Dimensions



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