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# 1SS85

Silicon Epitaxial Planar Diode for Tuner Band Switch

# HITACHI

ADE-208-152A (Z)  
Rev. 1

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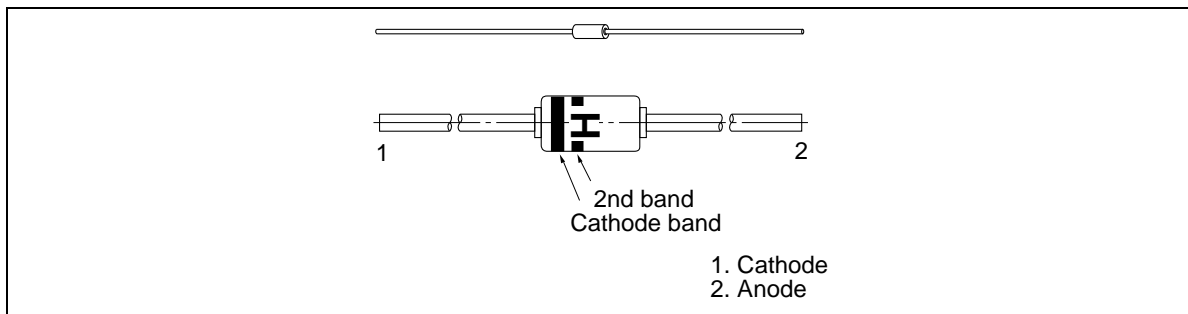
## Features

- Low forward resistance. ( $r_f = 0.9\Omega_{\text{max}}$ )
- High reliability with glass seal.

## Ordering Information

Type No.	Cathode	2nd Band	Mark	Package Code
1SS85	Verdure	Black	H	DO-35

## Outline



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## 1SS85

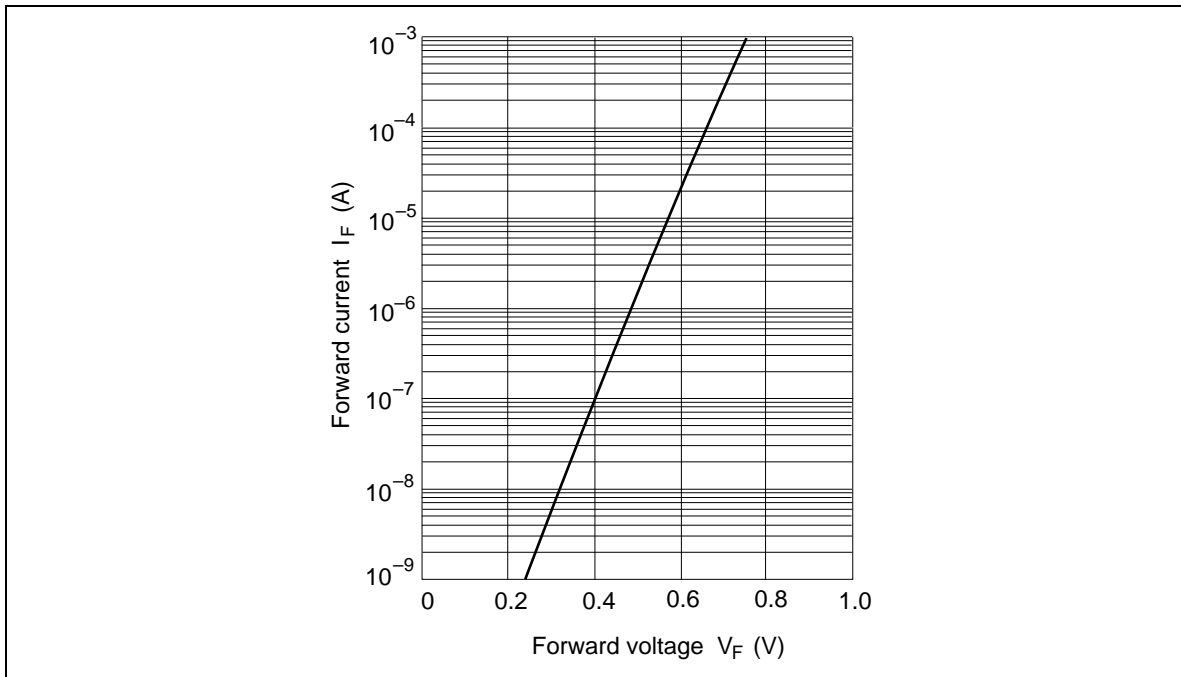
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### Absolute Maximum Ratings (Ta = 25°C)

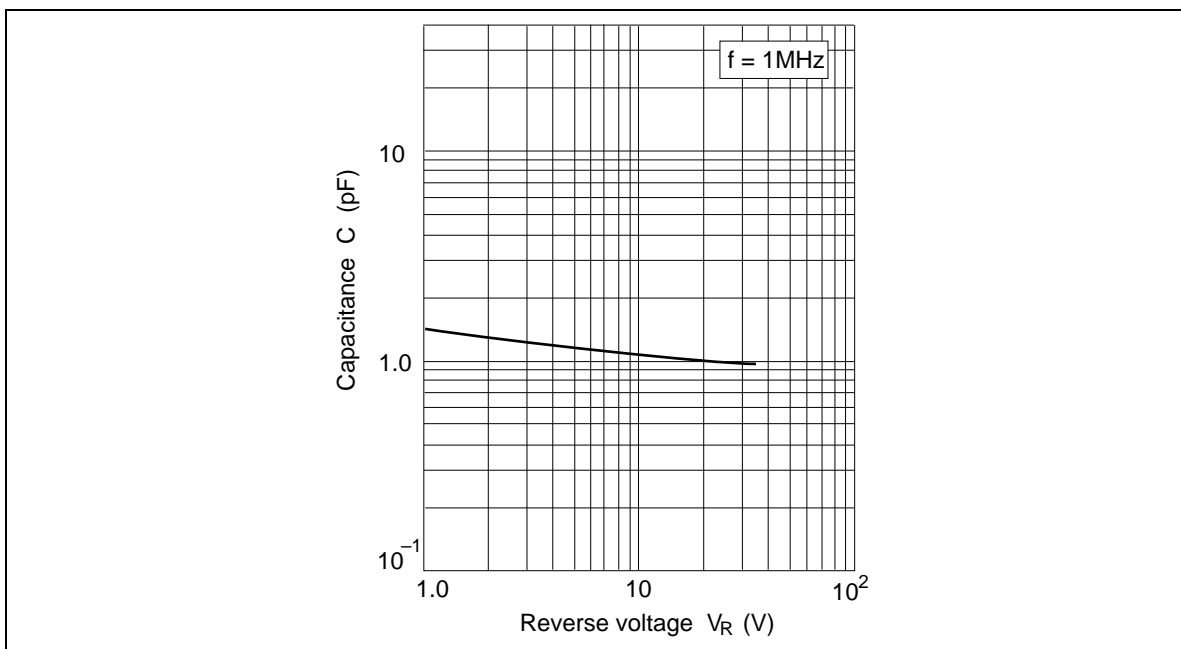
Item	Symbol	Value	Unit
Reverse voltage	$V_R$	35	V
Forward current	$I_F$	100	mA
Junction temperature	$T_j$	175	°C
Storage temperature	$T_{stg}$	-65 to +175	°C

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

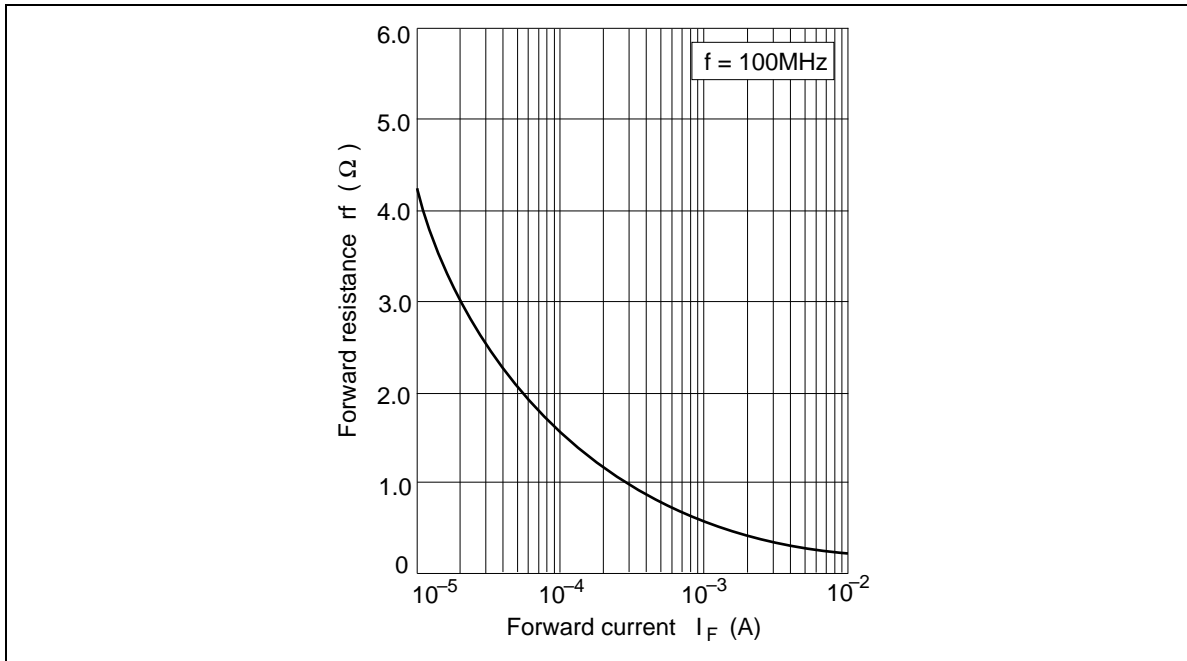
Item	Symbol	Min	Typ	Max	Unit	Test Condition
Forward voltage	$V_F$	—	—	1.0	V	$I_F = 10\text{mA}$
Reverse voltage	$V_R$	35	—	—	V	$I_R = 10\mu\text{A}$
Reverse current	$I_R$	—	—	0.1	$\mu\text{A}$	$V_R = 25\text{V}$
Capacitance	C	—	—	1.2	pF	$V_R = 6\text{V}$ , $f = 1\text{MHz}$
Forward resistance	$r_f$	—	—	0.9	$\Omega$	$I_F = 2\text{mA}$ , $f = 100\text{MHz}$



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



**Fig.2 Capacitance Vs. Reverse voltage**



**Fig.3 Forward resistance Vs. Forward current**

Package Dimensions

