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# 1SS118

Silicon Epitaxial Planar Diode for High Speed Switching

# HITACHI

ADE-208-297 (Z)  
Rev. 0

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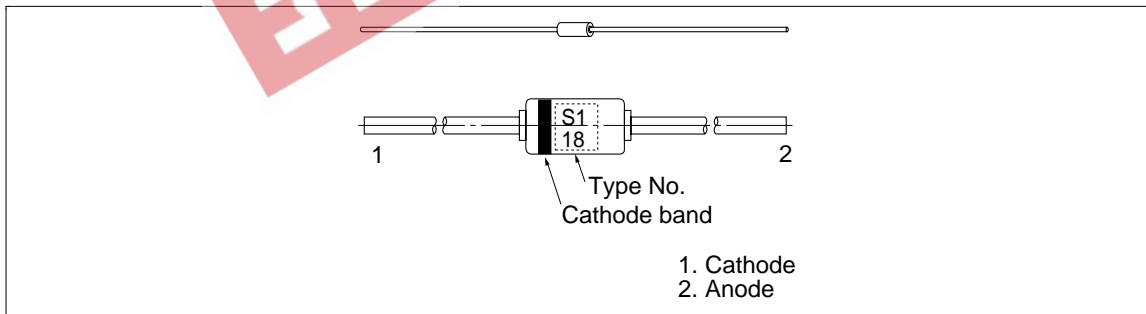
## Features

- High average forward current. ( $I_0 = 200\text{mA}$ )
- High reliability with glass seal.

## Ordering Information

Type No.	Cathode band	Mark	Package Code
1SS118	Black	S118	DO-35

## Outline



## 1SS118

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

Item	Symbol	Value	Unit
Peak reverse voltage	$V_{RM}$	75	V
Reverse voltage	$V_R$	50	V
Peak forward current	$I_{FM}$	600	mA
Non-Repetitive peak forward surge current	$I_{FSM}^*$	4	A
Average forward current	$I_O$	200	mA
Power dissipation	$P_d$	500	mW
Junction temperature	$T_j$	175	°C
Storage temperature	$T_{stg}$	-65 to +175	°C

Note: Value at duration of 1μs

### 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 current	$I_R$	—	—	0.1	μA	$V_R = 50\text{V}$
Capacitance	C	—	—	3.5	pF	$V_R = 0\text{V}, f = 1\text{MHz}$
Reverse recovery time	$t_{rr}$	—	—	3.0	ns	$I_F = 10\text{mA}, V_R = 6\text{V}, I_{rr} = 0.1I_R,$ $R_L = 50\Omega$

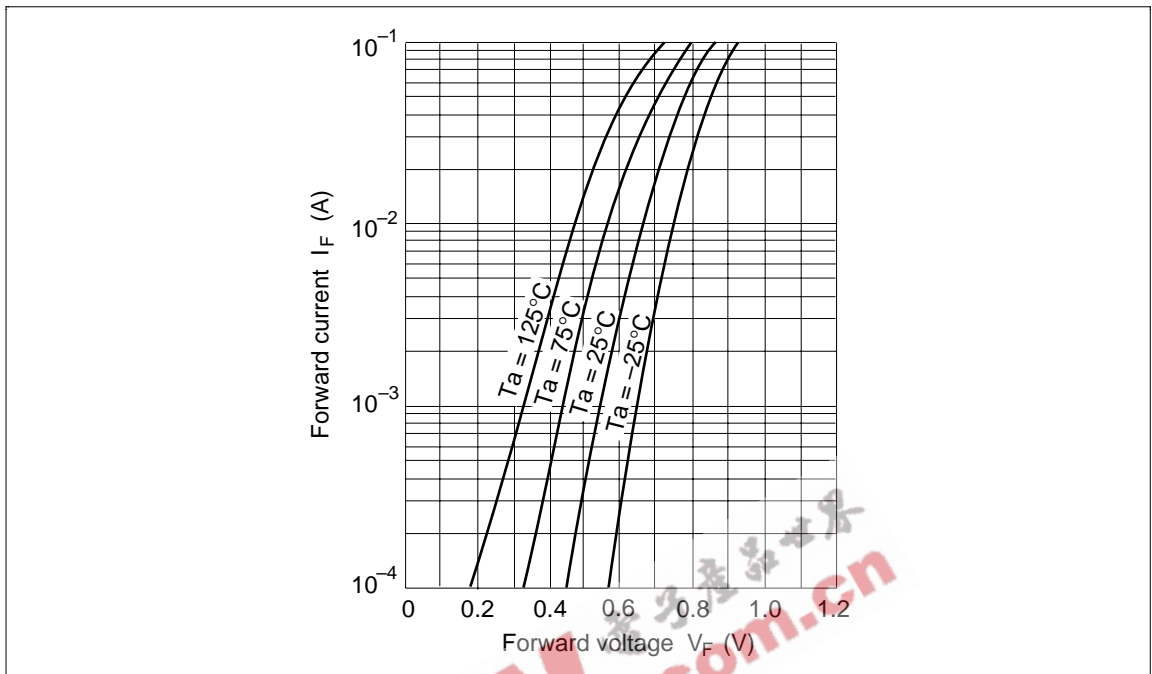


Fig.1 Forward current Vs. Forward voltage

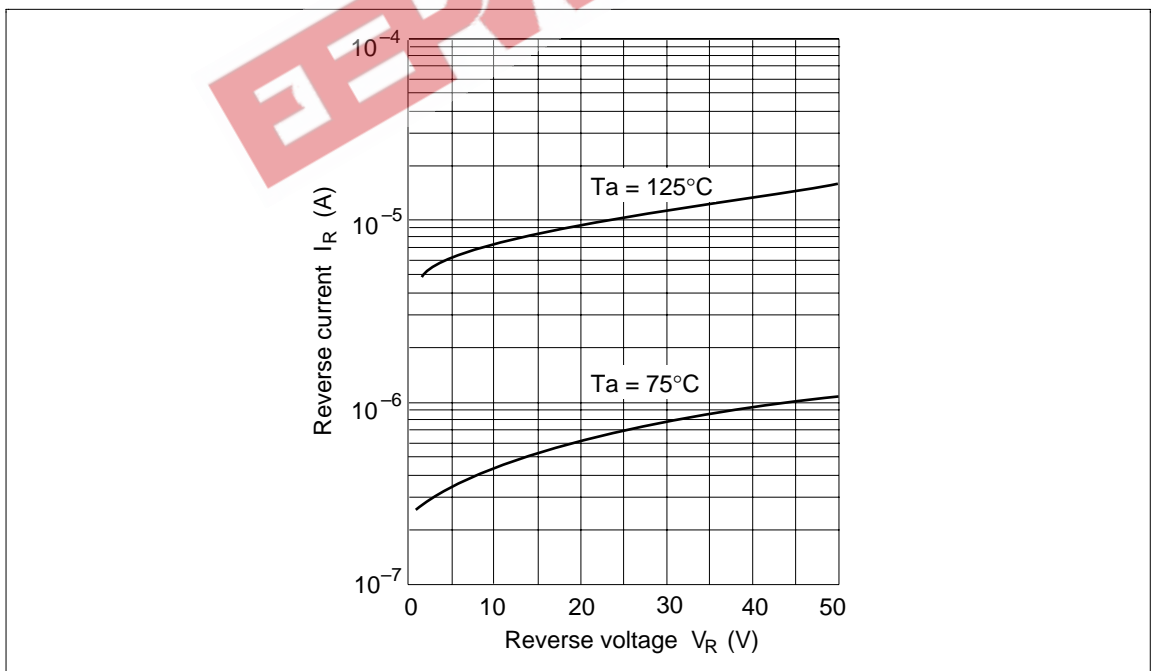
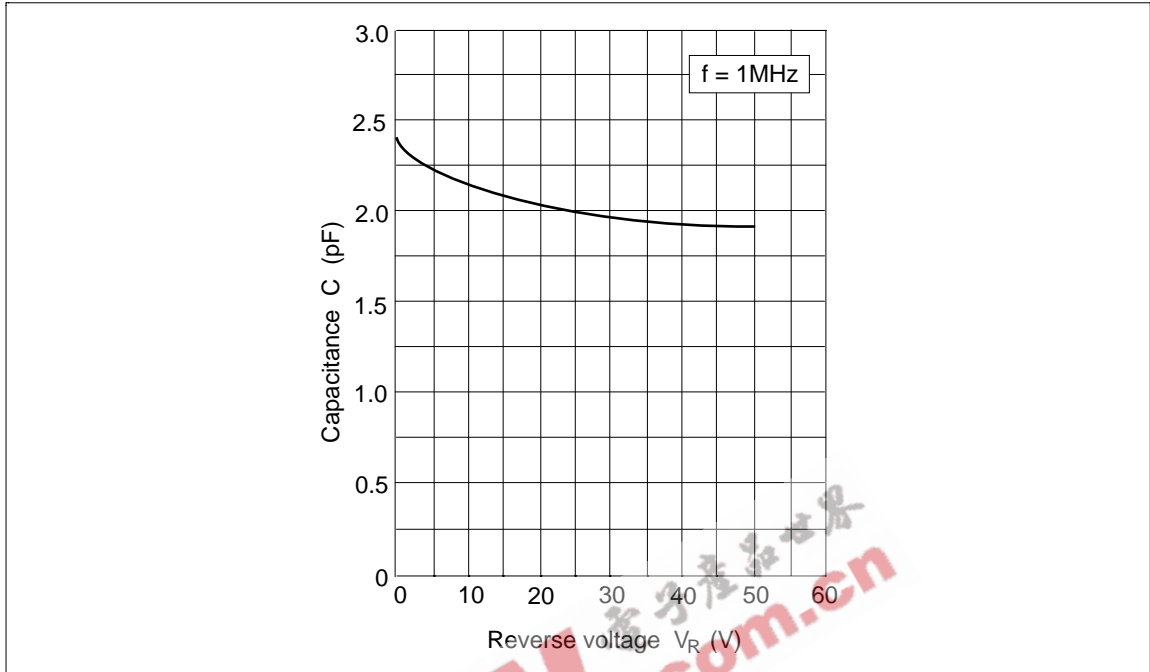


Fig.2 Reverse current Vs. Reverse voltage

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**1SS118**

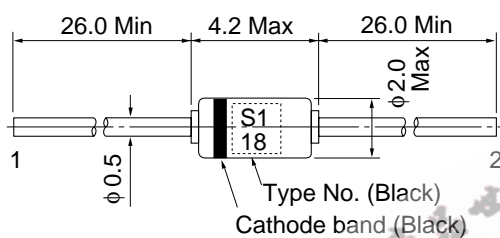
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**Fig.3 Capacitance Vs. Reverse voltage**

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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