1S2074(H)

Silicon Epitaxial Planar Diode for High Speed Switching

HITACHI

ADE-208-142A (Z) Rev. 1 Aug. 1995

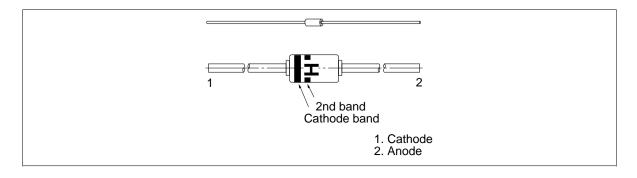
Features

- Low capacitance. (C = 3.0pF max)
- Short reverse recovery time. $(t_{rr} = 4.0 \text{ns max})$
- High reliability with glass seal.

Ordering Information

Type No.	Cathode	2nd band	Mark	Package Code
1S2074(H)	Green	White	Н	DO-35

Outline





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

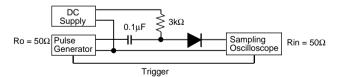
Item	Symbol	Value	Unit
Peak reverse voltage	V_{RM}	50	V
Reverse voltage	V _R	45	V
Peak forward current	I _{FM}	450	mA
Non-Repetitive peak forward surge current	I _{FSM} *	600	mA
Average forward current	Io	150	mA
Power dissipation	Pd	250	mW
Junction temperature	Tj	175	°C
Storage temperature	Tstg	-65 to +175	°C

Note: Within 1s forward surge current.

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

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Forward voltage	V_{F}	0.64	_	0.8	V	$I_F = 10mA$
Reverse current	I_R	_	_	0.1	μΑ	V _R = 30V
Capacitance	С	_	_	3.0	pF	V _R = 1V, f = 1MHz
Reverse recovery time	t,,*	_		4.0	ns	$I_F = I_R = 10$ mA, $Irr = 1$ mA

Note: Reverse recovery time test circuit



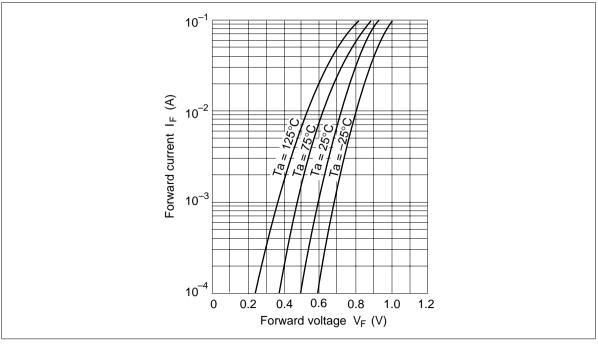


Fig.1 Forward current Vs. Forward voltage

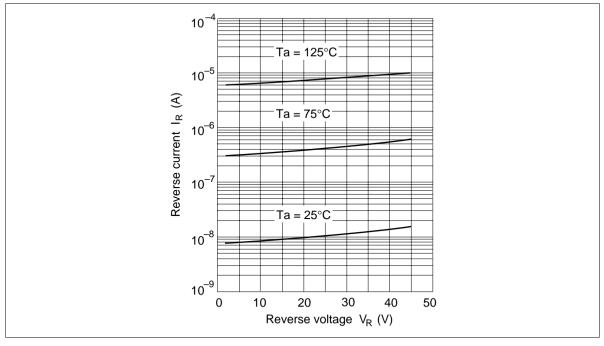


Fig.2 Reverse current Vs. Reverse voltage

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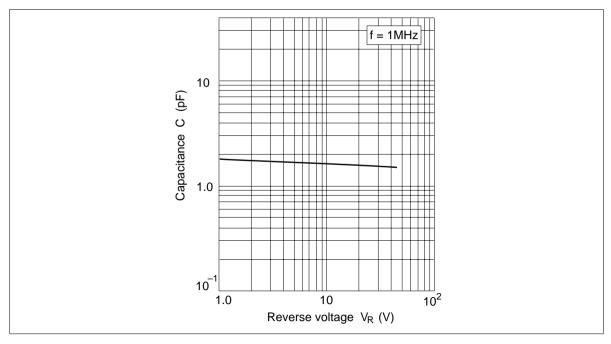
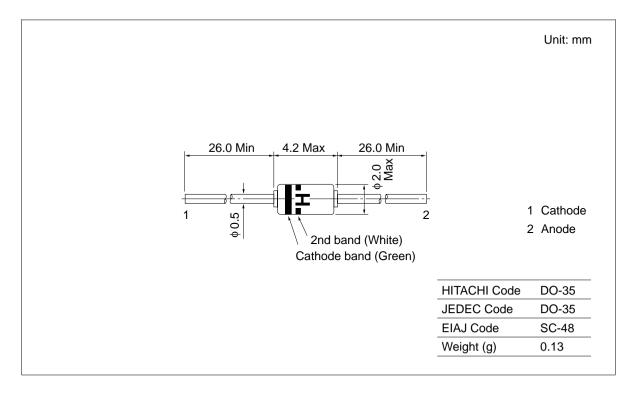


Fig.3 Capacitance Vs. Reverse voltage

Package Dimensions



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