Silicon Epitaxial Planar Diode for High Speed Switching

HITACHI

ADE-208-142B (Z)

Rev.2 Oct. 2000

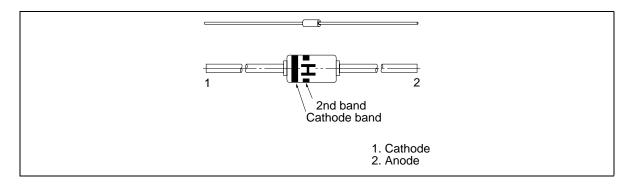
Features

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

Ordering Information

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

Outline





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 *	600	mA	
Average forward current	I _o	150	mA	
Power dissipation	Pd	250	mW	
Junction temperature	Tj	175	°C	
Storage temperature	Tstg	-65 to +175	°C	

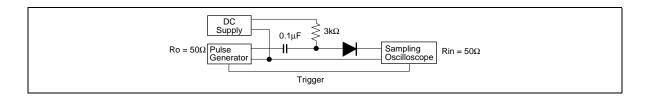
Note: Within 1s forward surge current.

Electrical Characteristics

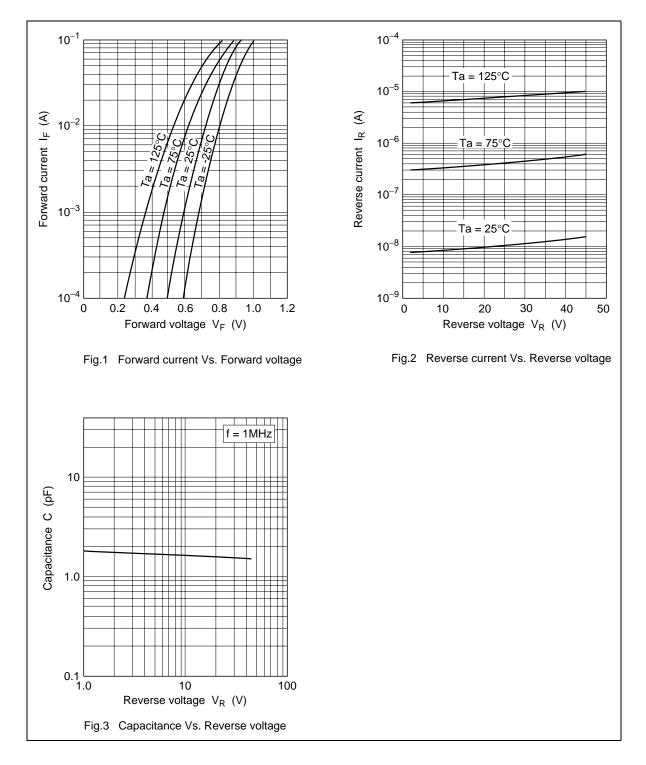
 $(Ta = 25^{\circ}C)$

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Forward voltage	V _F	0.64	_	0.8	V	I _F = 10 mA
Reverse current	I _R		_	0.1	μΑ	V _R = 30 V
Capacitance	С	_	_	3.0	pF	V _R = 1 V, f = 1 MHz
Reverse recovery time	t _{rr} *		_	4.0	ns	$I_{_{\rm F}} = I_{_{\rm R}} = 10 \text{ mA}, \text{ Irr} = 1 \text{ mA}$

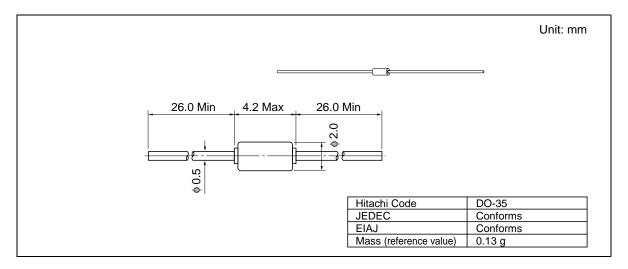
Note: Reverse recovery time test circuit



Main Characteristic



Package Dimensions



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