1S2076A

Silicon Epitaxial Planar Diode for High Speed Switching

HITACHI

ADE-208-146B (Z)

Rev.2 Oct. 2000

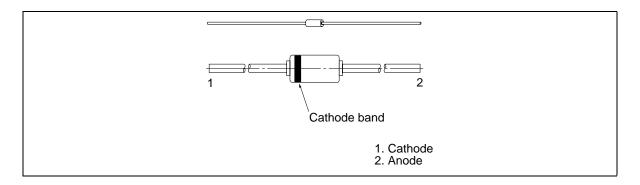
Features

- Low capacitance. (C = 3.0 pF max)
- Short reverse recovery time. $(t_{rr} = 8.0 \text{ ns max})$
- High reliability with glass seal.

Ordering Information

Type No.	Cathode band	Package Code
1S2076A	Navy Blue	DO-35

Outline





1S2076A

Absolute Maximum Ratings

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

Item	Symbol	Value	Unit
Peak reverse voltage	$V_{_{RM}}$	70	V
Reverse voltage	V _R	60	V
Peak forward current	I _{FM}	450	mA
Non-Repetitive peak forward surge current	*	1	Α
Average forward current	Io	150	mA
Power dissipation	Pd	250	mW
Junction temperature	Tj	175	°C
Storage temperature	Tstg	-65 to +175	°C

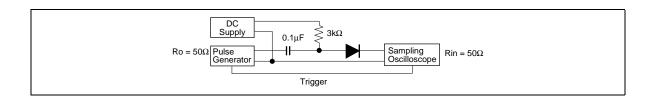
Note: Within 1s forward surge current.

Electrical Characteristics

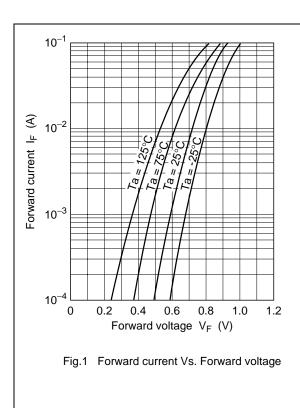
 $(Ta = 25^{\circ}C)$

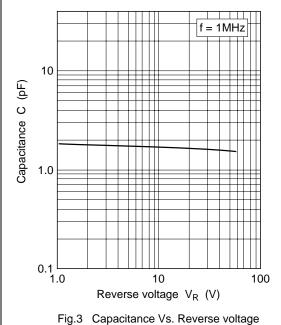
Item	Symbol	Min	Тур	Max	Unit	Test Condition
Forward voltage	V _F	0.64	_	0.8	V	I _F = 10 mA
Reverse current	I _R	_	_	0.1	μΑ	V _R = 30 V
Capacitance	С	_	_	3.0	pF	V _R = 1 V, f = 1 MHz
Reverse recovery time	t _{rr} *	_	_	8.0	ns	$I_F = I_R = 10 \text{ mA}, \text{ Irr} = 1 \text{ mA}$

Note: Reverse recovery time test circuit



Main Characteristic





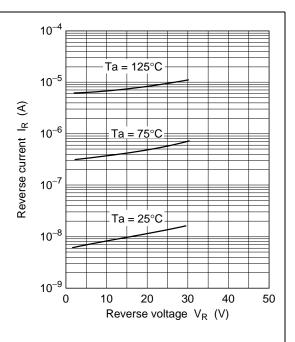
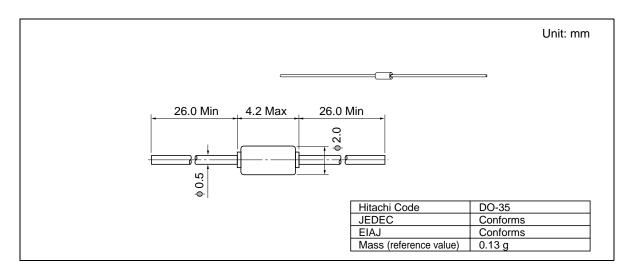


Fig.2 Reverse current Vs. Reverse voltage

1S2076A

Package Dimensions



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