1N4148

Silicon Epitaxial Planar Diode for Various Detector, Modulator, Demodulator

HITACHI

ADE-208-147C (Z)

Rev.3 Dec. 2001

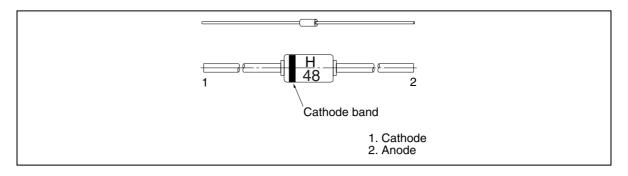
Features

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

Ordering Information

Type No.	Cathode band	Mark	Package Code
1N4148	Black	H48	DO-35

Outline





1N4148

Absolute Maximum Ratings

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

Item	Symbol	Value	Unit	
Peak reverse voltage	$V_{\scriptscriptstyle{RM}}$	100	V	
Reverse voltage	V _R	75	V	
Peak forward current	I _{FM}	450	mA	
Non-Repetitive peak forward surge current	I _{FSM} *	1	Α	_
Average forward current	Io	150	mA	
Power dissipation	Pd	500	mW	
Junction temperature	Tj	200	°C	_
Storage temperature	Tstg	-65 to +200	°C	_

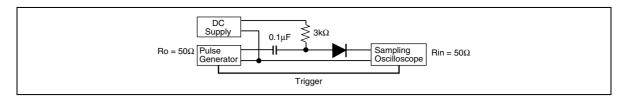
Note: Within 1s forward surge current.

Electrical Characteristics

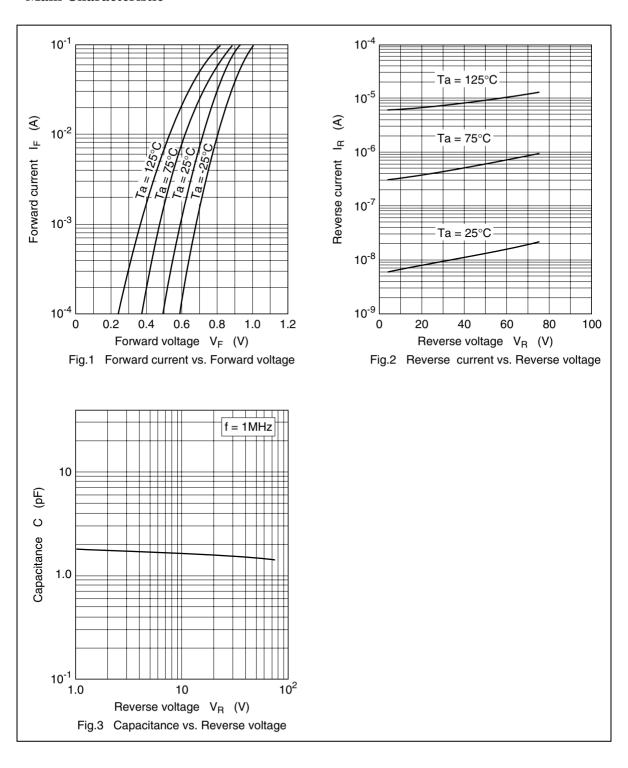
 $(Ta = 25^{\circ}C)$

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Forward voltage	V _F	_	_	1.0	V	I _F = 10 mA
Reverse current	I _R	_	_	25	nA	V _R = 20 V
Capacitance	С	_	_	4.0	pF	$V_R = 0 \text{ V, f} = 1 \text{ MHz}$
Reverse recovery time	t _{rr} *	_	_	4.0	ns	$I_F = 10 \text{ mA}, V_R = 6 \text{ V}, Irr = 1 \text{ mA}, R_1 = 100 \Omega$

Note: Reverse recovery time test circuit

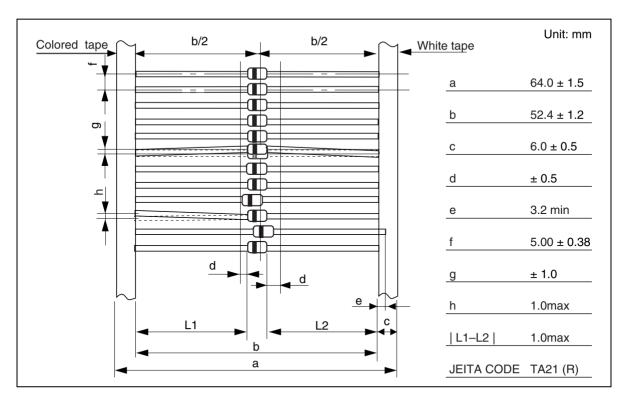


Main Characteristic

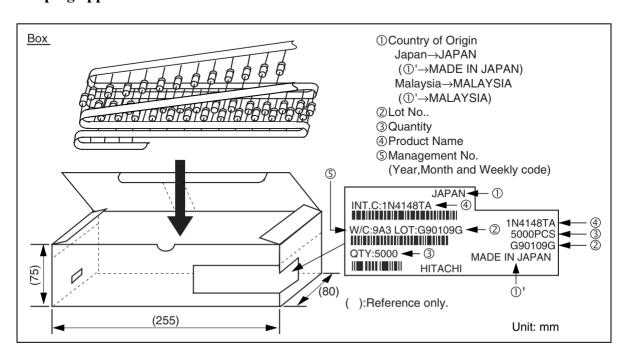


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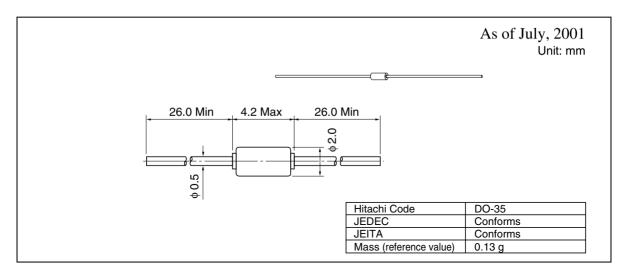
Ammo Pack Taping (TA TYPE)



Taping appearance



Package Dimensions



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