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Renesas Electronics website: http://www.renesas.com

April 1st, 2010 Renesas Electronics Corporation

Issued by: Renesas Electronics Corporation (http://www.renesas.com)

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1N4148

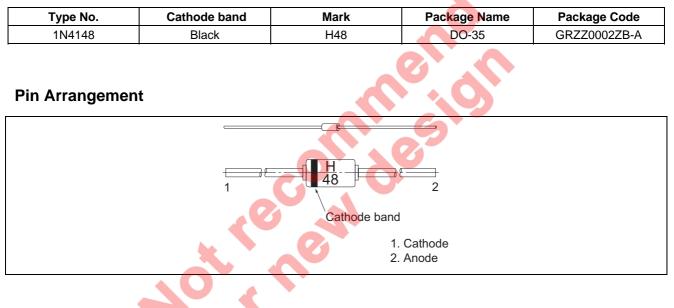
Silicon Epitaxial Planar Diode for Various Detector, Modulator, Demodulator

> REJ03G0556-0500 Rev.5.00 Jul 19, 2006

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





Absolute Maximum Ratings

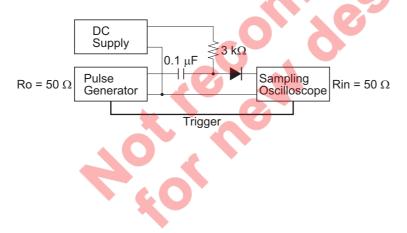
		(Ta = 25°C)
Symbol	Value	Unit
V _{RM}	100	V
V _R	75	V
lo	150	mA
I _{FM}	450	mA
I _{FSM} *	1	А
Pd	500	mW
Tj	200	°C
Tstg	-65 to +200	°C
	V _{RM} V _R Io IFM IFSM * Pd Tj	V _{RM} 100 V _R 75 Io 150 I _{FM} 450 I _{FSM} * 1 Pd 500 Tj 200

Note: Within 1s forward surge current.

Electrical Characteristics

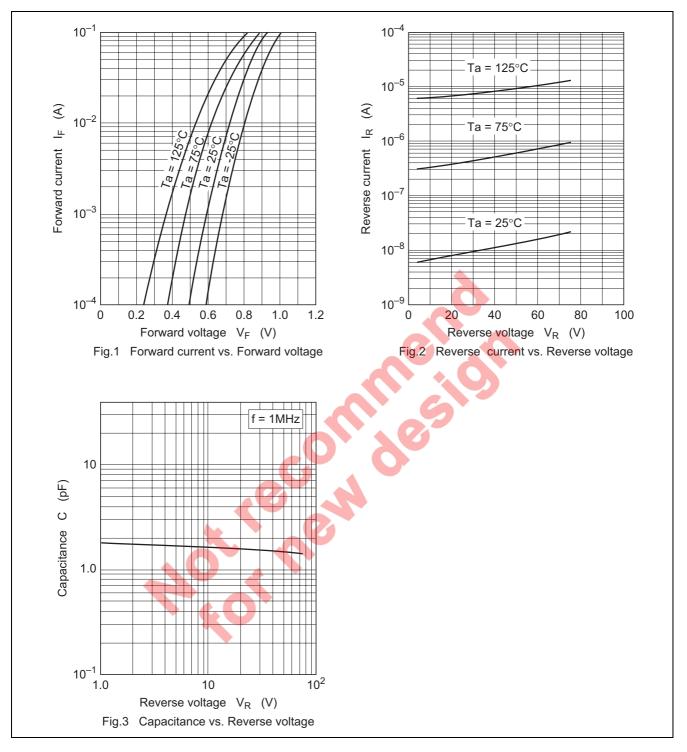
						(Ta = 25°C)
Item	Symbol	Min	Тур	Max	Unit	Test Condition
Forward voltage	V _F	—	—	1.0	V	I _F = 10 mA
Reverse current	I _R	—	—	25	nA	$V_R = 20 V$
Capacitance	С	—	—	4.0	pF	$V_R = 0 V$, f = 1 MHz
Reverse recovery time	t _{rr} * ¹	—	—	4.0	ns 🍐	I _F = 10 mA, V _R = 6 V, Irr = 1 mA,
						$R_L = 100 \Omega$

Note: 1. Reverse recovery time test circuit



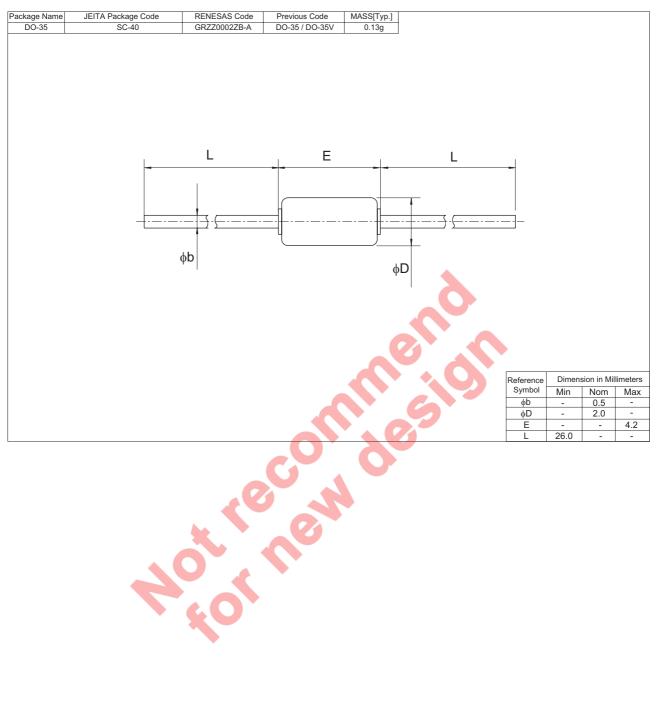


Main Characteristic





Package Dimensions





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