

INTERNATIONAL SEMICONDUCTOR, INC.

FORWARD REGULATOR (Multi-Chip) DIODES

**1N3896
thru
1N3898**

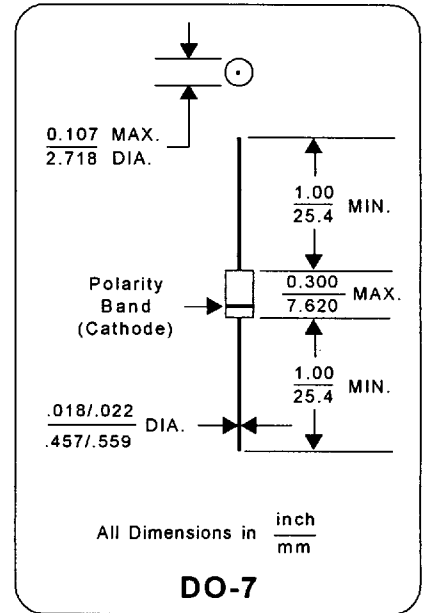
These high speed multi-pellet diodes are used in computer circuits and general purpose applications. They consist of one, two, or three silicon diode chips in series, mounted in a DO-35 hermetically sealed glass package. This structure makes possible devices having controlled conductance and low leakage. This controlled conductance is necessary for the design of clippers, dc coupling circuits, clamping circuits, meter protectors, bias regulators, and other types of circuits that require tight tolerance on low voltage levels.

*** ELECTRICAL CHARACTERISTICS**

JEDEC TYPE NUMBER	FORWARD VOLTAGE DROP			FORWARD VOLTAGE DROP			FORWARD VOLTAGE DROP		FORWARD SATURATION CURRENT	
	I_f	V_f -Min	V_f -Max	I_f	V_f -Min	I_{zt}	V_f -Max	Z_f at $I_f=30mA$	V_f	I_f -Max
	mA	Volts	Volts	mA	Volts	mA	Volts	Ohms	Volts	μA
1N3896	50	0.732	0.809	0.50	0.50	50	0.80	2.5	0.35	30
1N3897	30	1.425	1.575	0.50	1.00	50	1.60	5.0	0.70	25
1N3898	20	1.995	2.205	0.50	1.50	50	2.40	10.0	1.00	20

* JEDEC Registered Data.

NOTE 1: Zener impedance is derived by superimposing on I_f a 60 Hz rms a.c. current equal to 10% of I_f .



DESIGN DATA

CASE: Hermetically sealed glass case. DO-7 Outline.

LEAD MATERIAL: Copper Clad Steel

LEAD FINISH: Tin Plate

THERMAL RESISTANCE:
250 °C/w (Typical)
junction to ambient.

POLARITY: Diode to be operated with the banded (cathode) end positive with respect to the opposite end

WEIGHT: 0.2 Grams

MOUNTING POSITION: Any

252 Cox Street, Roselle, NJ, USA, 07203-1704 ■ 908 245-2233

Toll-Free (800) 392-2474

Fax: (908) 245-5541

■ 9000378 0000568 966 ■