

NE529N Series – Voltage Comparator

GENERAL DESCRIPTION

The SE/NE529 is a high speed analog voltage comparator which, for the first time mates state-of-the-art Schottky diode technology with the conventional linear process. This allows simultaneous fabrication of high speed T^2L gates with a precision linear amplifier on a single monolithic chip.

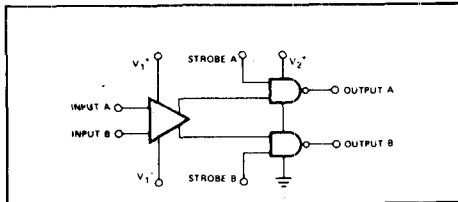
FEATURES

- 10ns propagation delay
- Complementary output gates
- TTL or ECL compatible outputs
- Wide common mode and differential voltage range

APPLICATIONS

- A/D conversion
- ECL to TTL interface
- TTL to ECL interface
- Memory sensing
- Optical data coupling
- Mil std 883A, B, C available

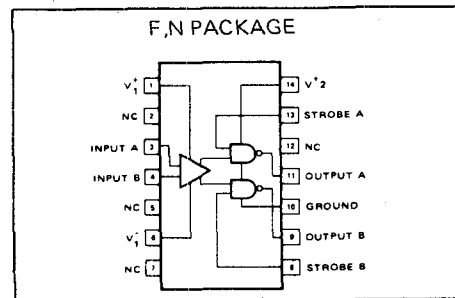
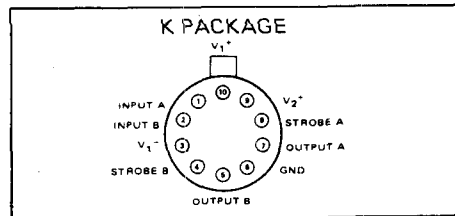
BLOCK DIAGRAM



MAXIMUM RATINGS

PARAMETER	RATING	UNIT
Positive supply voltage (V1+)	+15	V
Negative supply voltage (V1-)	-15	V
Gate supply voltage (V2+)	+7	V
Output voltage	+15	V
Differential input voltage	±5	V
Input common mode voltage	±6	V
Power dissipation	600	mW
Operating temperature range		
NE529	0 to +70	°C
SE529	-55 to +125	°C
Storage temperature range	-65 to +150	°C
Lead temperature (soldering, 60sec)	+300	°C

CONNECTION DIAGRAM



REFERENCE TABLE

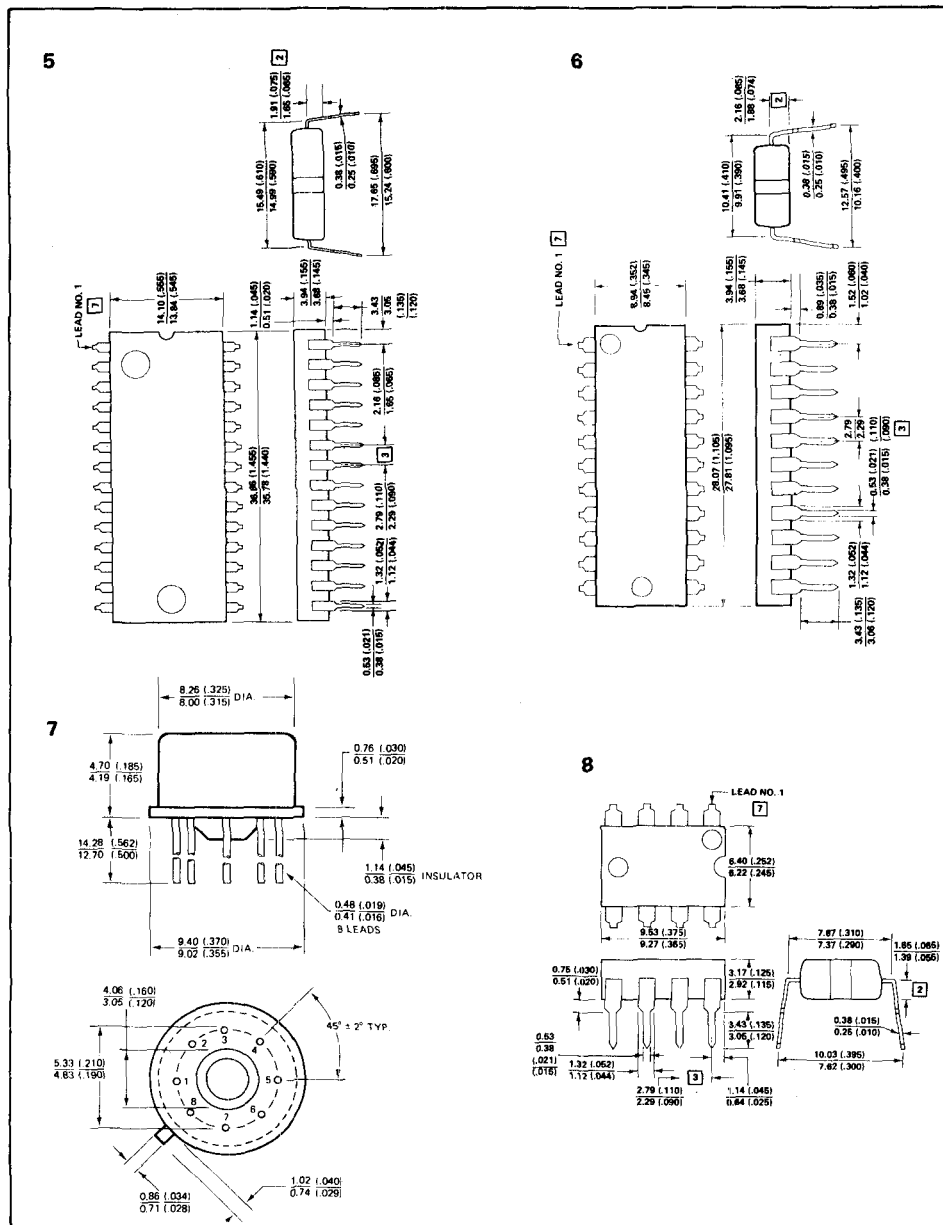
TYPE NO.	STOCK NO.	OUTLINE DRWG. NO.
NE529N	56012X	1
NE529K	56013R	9
SE529K	56014G	9

PLEASE QUOTE STOCK NO.
AND MANUFACTURERS PART NO. WHEN ORDERING

ITT GEMINI

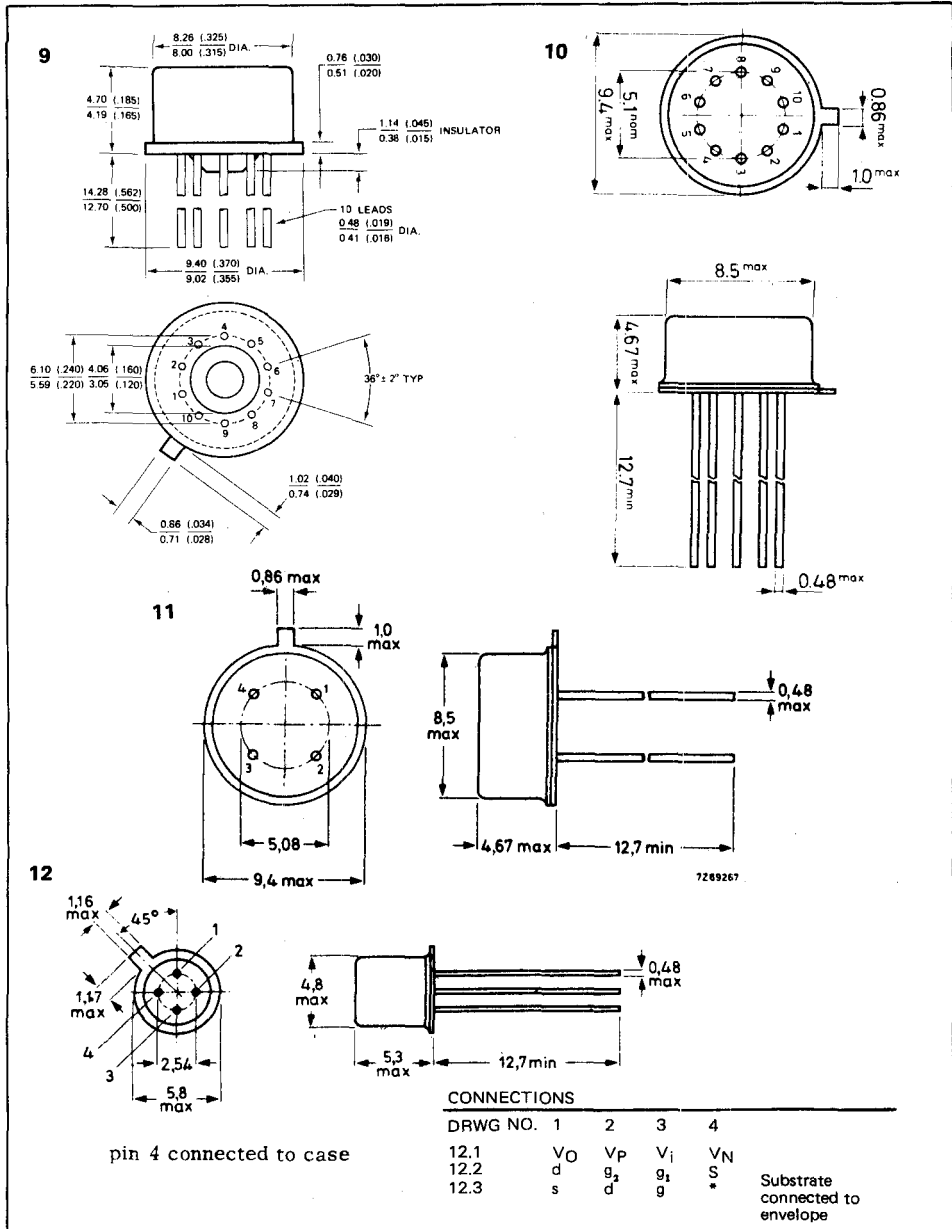
Signetics

Outline Drawings



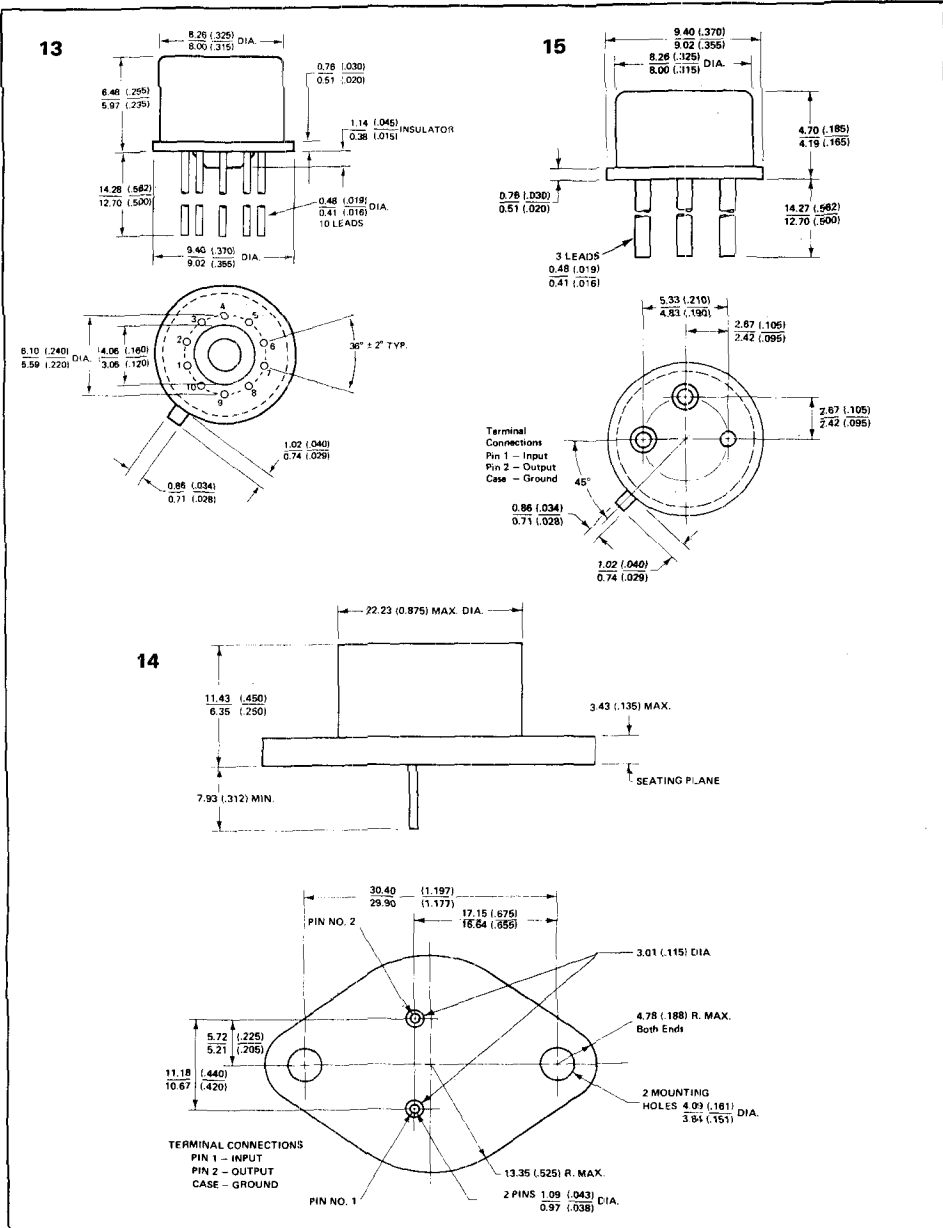
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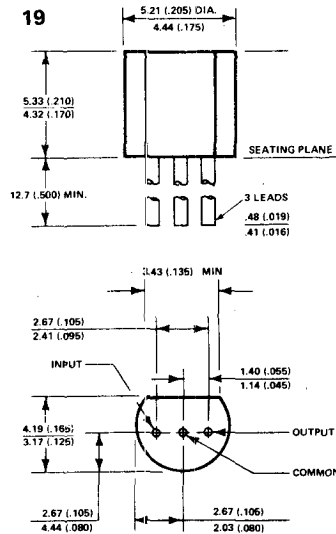
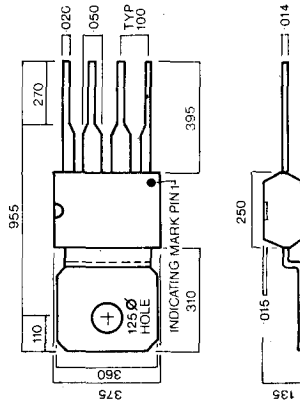
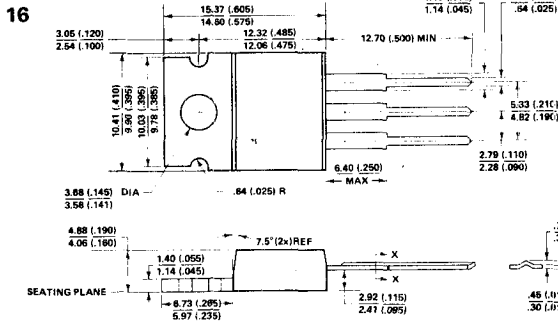
FOR CURRENT PRICES PHONE
HARLOW (0279) 29644



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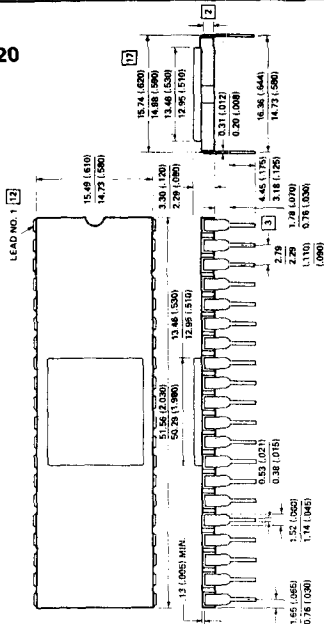




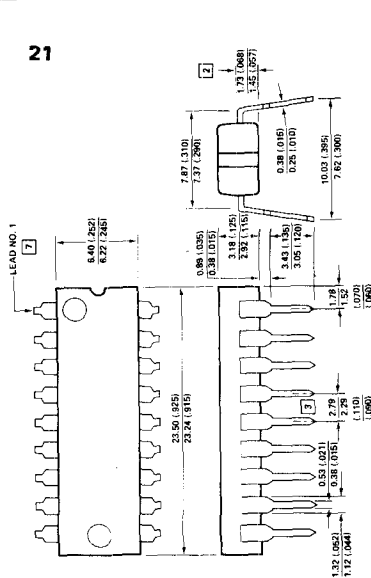
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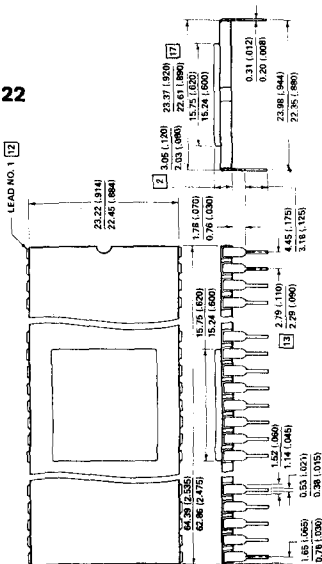
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