

μ A 723 Series — Precision Voltage Regulator

GENERAL DESCRIPTION

The μ 723/SA723C is a Monolithic Precision Voltage Regulator capable of operation in positive or negative supplies as a series, shunt, switching or floating regulator. The 723 contains a temperature compensated reference amplifier, error amplifier, series pass transistor, and current limiter, with access to remote shutdown.

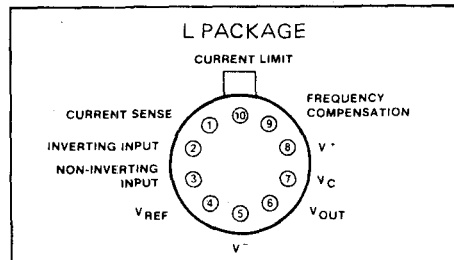
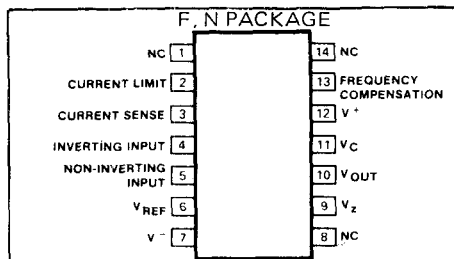
FEATURES

- Positive or negative supply operation
- Series, shunt, switching or floating operation
- .01% line and load regulation
- Output voltage adjustable from 2 to 37 volts
- Output current to 150mA without external pass transistor
- μ A723 MIL STD 88 3A, B, C available

MAXIMUM RATINGS

PARAMETER	RATING	UNIT
Pulse voltage from $V+$ to $V-$ (50 ms)	50	V
μ A723		
μ A723C		
SA723C		
Continuous voltage from $V+$ to $V-$		
μ A723	40	V
μ A723C	40	V
SA723C	40	V
Input-output voltage differential	40	V
Maximum output current		
μ A723	150	mA
μ A723C	150	mA
SA723C	150	mA
Current from V_{REF}		
μ A723	15	mA
μ A723C		
SA723C		
Current from V_Z		
μ A723		
μ A723C	25	mA
SA723C	25	mA
Internal power dissipation		
μ A723	800	mA
μ A723C	800	mA
SA723C	800	mA
Operating temperature range		
μ A723	-55 to +125	$^{\circ}$ C
μ A723C	0 to 70	$^{\circ}$ C
SA723C	-40 to +85	$^{\circ}$ C
Storage temperature range		
μ A723	-65 to +150	$^{\circ}$ C
μ A723C	-65 to +150	$^{\circ}$ C
SA723C	-65 to +150	$^{\circ}$ C
Lead temperature		
μ A723	300	$^{\circ}$ C
μ A723C	300	$^{\circ}$ C
SA723C	300	$^{\circ}$ C

CONNECTION DIAGRAM



REFERENCE TABLE

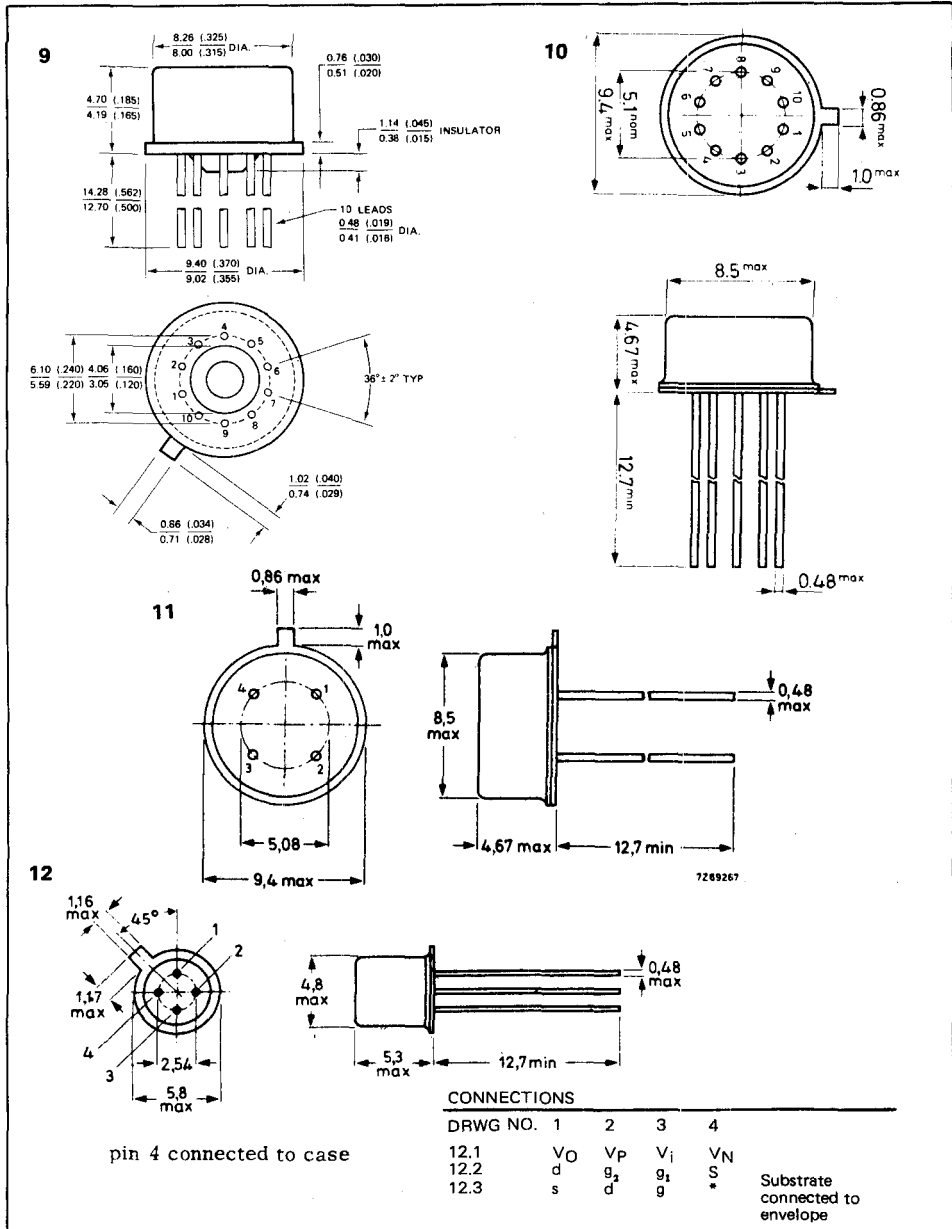
TYPE NO.	STOCK NO.	OUTLINE DRWG. NO.
μ A723F	56133D	1
μ A723L	56134B	13
μ A723CF	56135X	1
μ A723CL	56136R	13
μ A723CN	56137G	1

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

TELL GEMINI

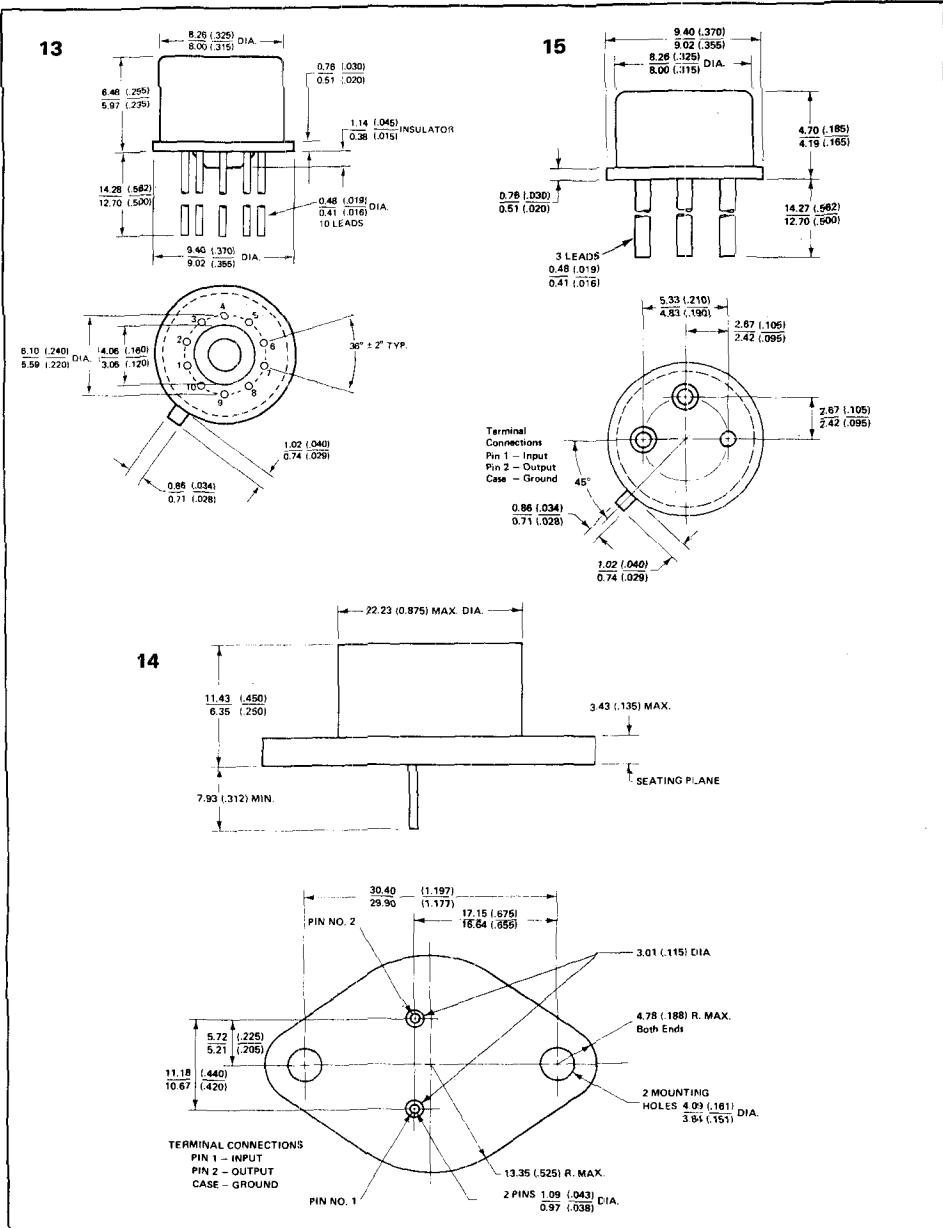
Outline Drawings



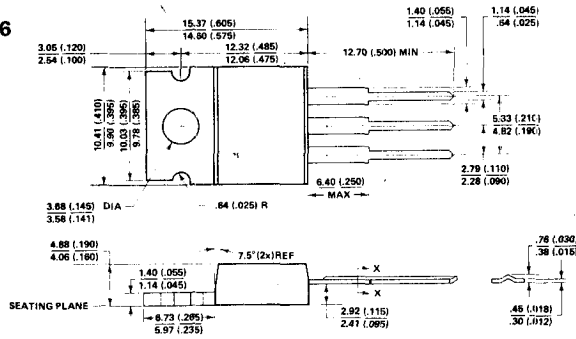


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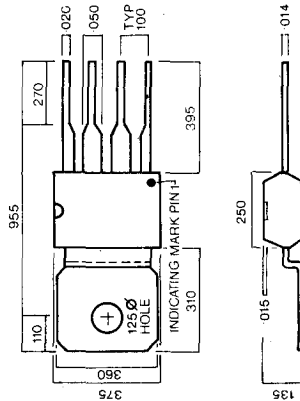
ITT GEMINI



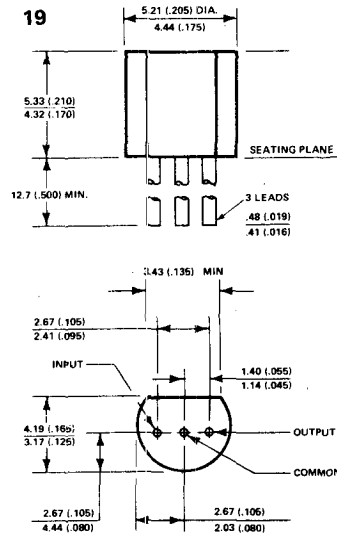
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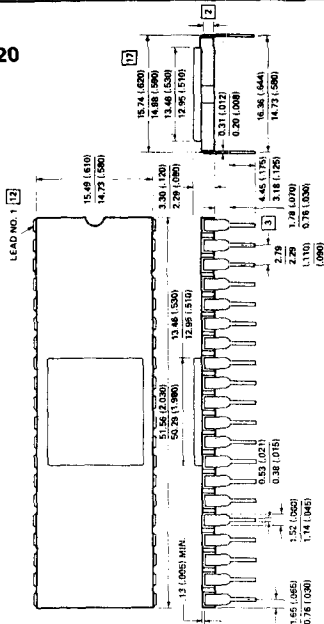
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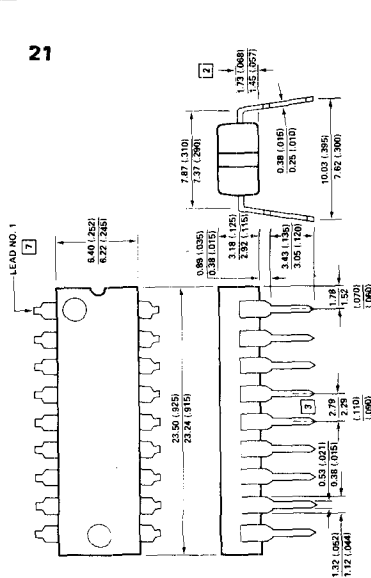
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TTT GEMINI

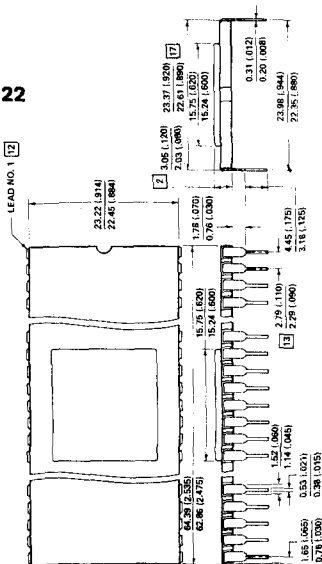
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