

**REL-LABS INC.***Hybrid Microelectronic Manufacturing*

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T-52-13-15

RL-453
POWER PNP TRANSISTOR PROTECTOR

FEATURES

- Internal Thermal Overload Protected
- Internal Current Limiting
- Rugged Hybrid Construction
- Greater Than 1.0 A Output Current
- TO5, 14 PIN Side Brazed DIP, or TO3
- Drives Lamps or Relays Directly From Positive 28VDC Supplies

GENERAL DESCRIPTION

The RL 453 offers a performance combination not usually found in discrete PNP Power Transistor-Speed and Thermal/Current Limiting. Not only does the RL 453 out perform PNP Power Transistors but it provides virtual absolute protection against overloads.

Applications include Lamp and Relay Drivers, Voltage Followers, Time Delay Circuits, Oscillators and Flasher Circuits, Opto-Isolated Power Switches, Regulator Circuits

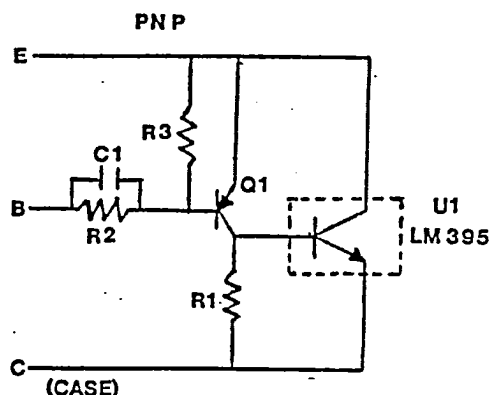
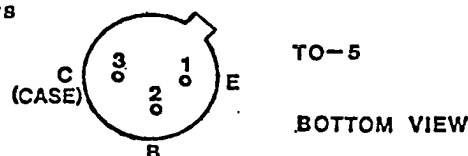
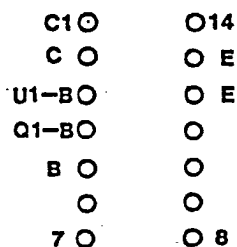
APPLICATIONS INCLUDE

Lamp and Relay Drivers
Voltage Followers
Time Delay Circuits
Oscillators and Flasher Circuits
Opto-Isolated Power Switches
Regular Circuits
Current Limiters
CMOS or TTL Lamp Interfaces
Power Op-Amp Circuits

Drives 500 ma into 70Ω Load. Lamp or Relay Driver from Positive supply PNP Polarity normally off, "SHORT" turns it on.

Typical 1Ω on resistance and 100μA drive currents.

Typical 3mA "OFF" leakage.

SIMPLIFIED SCHEMATIC DIAGRAMPIN CONNECTIONSPRELIMINARY DIPORDERING INFORMATION

RL 453	0° to 70°C
RL 453c	0° to 125°C 883 Level B
RL 453 M	-55°C to +125°C 883 Level B