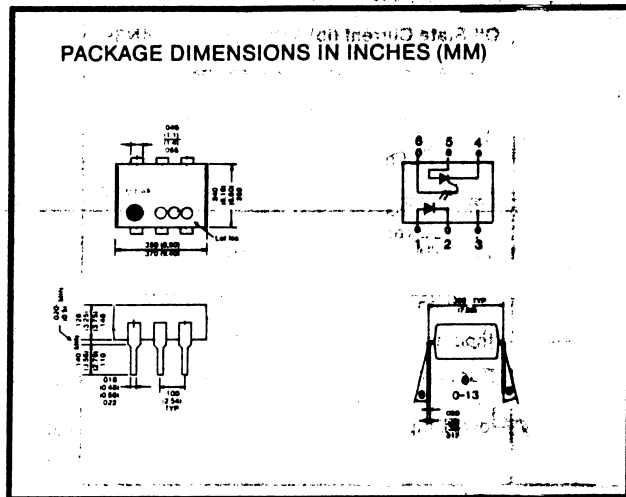
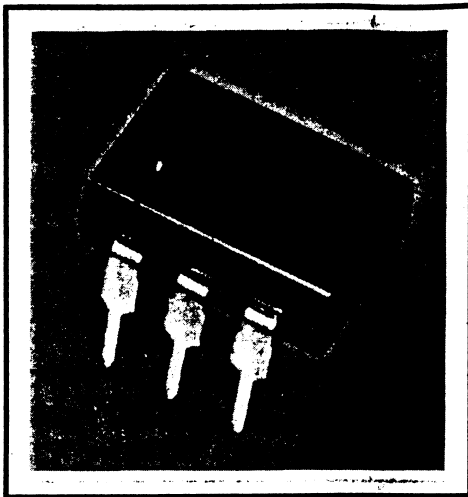


**4N39, 4N40**  
**Optically Coupled SCR Isolators**



**FEATURES**

- Photo - SCR Output
- 660 V Isolation
- 400 V Peak Forward Voltage
- Low cost dual-in-line package
- U.L. Approved (file No. 91231)

**DESCRIPTION**

The 4N39, 4N40 are optically coupled isolators consisting of a Gallium Arsenide infrared emitting diode and a light activated silicon controlled rectifier (SCR) mounted in a standard 6-pin dual-in-line package.

All electrical parameters are 100% tested. Specifications are guaranteed to a cumulative 0.65% AQL.

**ABSOLUTE MAXIMUM RATINGS (25°C unless otherwise noted)**

Storage Temperature .....	-55°C to + 150°C
Operating Temperature .....	-55°C to + 100°C
Normal Temperature Range (No Derating) .....	-55°C to + 50°C
Soldering Temperature (10 seconds) .....	260°C
Total Device Dissipation (-55°C to + 50°C) .....	450mW
Linear Derating Factor (above 50°C) .....	9.0mW/°C
Steady-State Isolation Voltage (Input-Output) .....	±660 V RMS

**Input Diode**

Forward D.C. Current (-55°C to 50°C) .....	60mA
Reverse D.C. Voltage (-55°C to 50°C) .....	6 V
Peak forward current (100 μs p.w. 1% duty cycle) .....	1 A
Power Dissipation (-55°C to 50°C) .....	100mW
(derate linearly 2.0 mW/°C above 50°C)	

**Output Photo SCR**

Off-State and Reverse Voltage (-55°C to 100°C) 4N39 .....	200V
4N40 .....	400V
Direct On-State Current (-55°C to 50°C) .....	300mA
Surge On-State Current (-55°C to 50°C) .....	10A
(100 μs 1% duty cycle)	

**Output Power Dissipation (-55°C to 50°C)**

(derate linearly 8 mW/°C above 50°C) .....	400mW
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