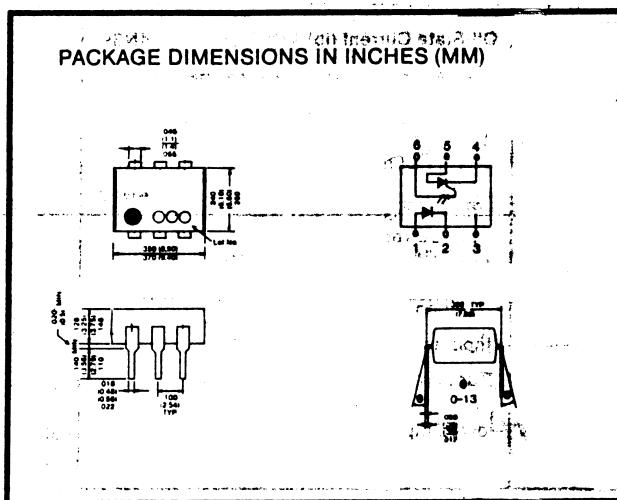
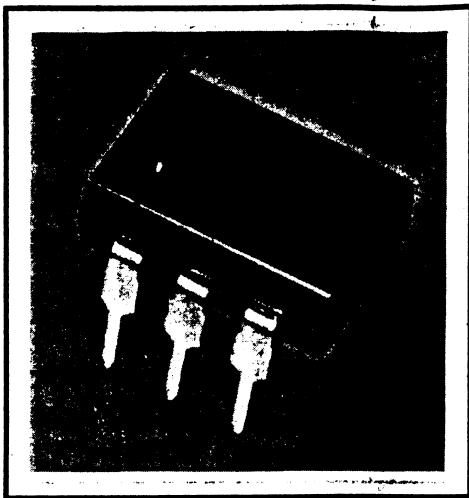


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4N39, 4N40 Optically Coupled SCR Isolators



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

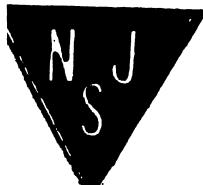
Forward D.C. Current (-55°C to 50°C).....	80mA
Reverse D.C. Voltage (-55°C to 50°C).....	8 V
Peak forward current (100 µs p.w. 1% duty cycle).....	1 A
Power Dissipation (-55°C to 50°C).....	100mW (derate linearly 2.0 mW/C above 50°C)

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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