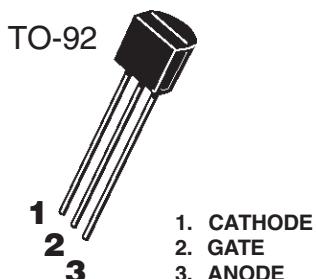
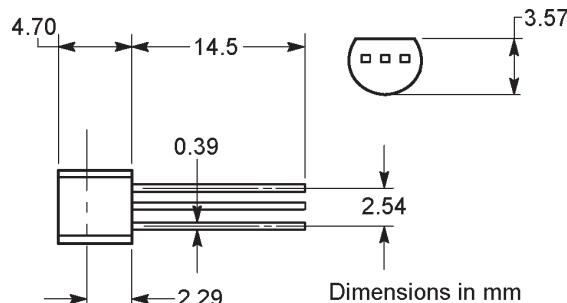


FCR150-8
Description

Mechanical Dimensions

Feature:

- Driven directly with IC and MOS device.
- Feature proprietary, void-free glass passivate chips.
- Available in voltage ratings from 200 to 600 volts. (VDRM and VRM)
- Sensitive gate trigger current.
- Designed for high volume, line-powered control application in relay lamp drivers, small motor controls, gate drivers for large thyristors.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (Ta=25°C)

PARAMETERS	SYMBOL	DEVICE NUMBER	V	UNITS
Repetitive Peak Off-State Voltage and Repetitive Peak Reverse Voltage (1)	VDRM & VRM	FCR150-8	600	VOLT
RMS On-State Current at Ta=57°C and Conduction Angle of 180°	I _T (RMS)		1.5	AMP
Peak Surge (Non-Repetitive)On-State Current, $\frac{1}{2}$ Cycle ,at 50Hz or 60Hz	I _{TSM}		15	AMP
Peak Gate-Trigger Current for 3μ sec , Max	I _{GTM}		1.0	AMP
Peak Gate-Power Dissipation at IGT≤IGTM	P _{GM}		0.1	WATT
Average Gate-Power Dissipation	P _G (AV)		0.01	WATT
Peak gate reverse voltage	V _{RGM}		6	V
Peak Off-State Current, (1)Ta=25°C VDRM & VRM=Max. Rating Ta=125°C	I _{DRM} & I _{RRM}		10 100	μA MAX
Maximum On-State Voltage. (Peak) At Tc=25°C and IT =Rated Amps	V _{TM}		1.7	VOLT MAX
DC Holding Current,(1)	I _{HO}		5	mA MAX
Critical Rate-Of-Rise of off-State Voltage.(1) Gate Open,Ta=110°C	Critical dv/dt		35	V/μ sec
DC Gate –Trigger Current for Anode Voltage=7VDC, RL=100Ω	I _{GT}		100	μA MAX
DC Gate –Trigger Voltage for Anode Voltage=7VDC, RL=100Ω	V _{GT}		0.8	VOLT MAX
Gate-Controlled Turn-on Time tD+tR IGT=10mA	Tgt		2.2	μ sec
Thermal Resistance , Junction-to-Case	R θ J-C		75	°C/WATT TYP
Storage Temperature range	T _{stg}		-40 to + 150	°C
Operating Temperature Range , T _j	T _{oper}		-40 to + 110	°C



Data Sheet

Semiconductor

1.5 Amp Silicon Controlled Rectifiers

