

# ISOLATED MOSFET DRIVERS

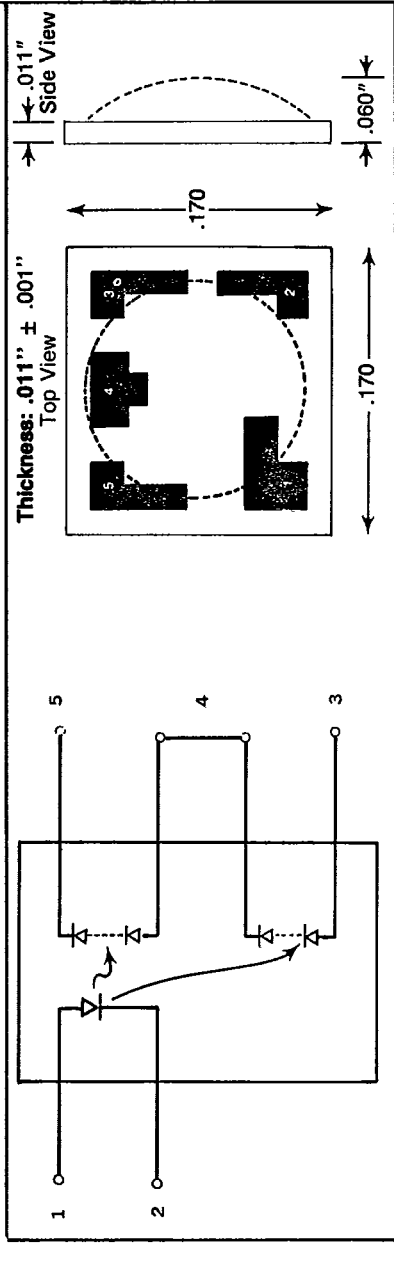
## ISO-GATE™ DEVICES

### OPTO-ISOLATOR PERFORMANCE

#### DIG-12-06-025C, DIG-12-08-045C, DIG-12-08-010C, DIG-12-06-100C, DIG-12-06-250C

Coupled Characteristics (T <sub>A</sub> = 25°C)	Symbols	DIG-12-06-025C (Channels in Series) MIN. TYP.	DIG-12-08-045C (Channels in Series) MIN. TYP.	DIG-12-08-010C (Channels in Series) MIN. TYP.	DIG-12-06-100C (Channels in Series) MIN. TYP.	DIG-12-06-250C (Channels in Series) MIN. TYP.	Unit
Open Circuit Voltage @ I <sub>F</sub> = 10mA @ I <sub>F</sub> = 30mA	V <sub>OC</sub>	10.0 12.0	12.0 13.0	8.0 13	10 12	12 15	V V
Short Circuit Current @ I <sub>F</sub> = 10mA @ I <sub>F</sub> = 30mA	I <sub>SC</sub>	1.0 1.5	1.0 2.0	.5 1.0	4 6	25 75	μA μA
On Time @ I <sub>F</sub> = 50 mA, P <sub>W</sub> = 100 μS, f = 1KHZ R <sub>SHUNT</sub> = 10 Meg, C = 10pf	t <sub>ON</sub>	—	—	—	—	—	μS
Off Time @ I <sub>F</sub> = 50 mA, P <sub>W</sub> = 100 μS, f = 1 KHZ R <sub>SHUNT</sub> = 10 Meg, C = 10 pf	t <sub>OFF</sub>	—	—	—	—	—	μS
Operating Temperature	T <sub>(op)</sub>	-50° to 110°C		-50° to 120°C	-50° to 110°C		°C
Temperature Coefficient	θ	-80		-100	-80		mV/°C

GENERAL CHARACTERISTICS		
Emitter* Forward Voltage (I <sub>F</sub> = 20mA)	Typ. 1.45	Max. 1.70
Reverse Current (V <sub>R</sub> = 3V)	—	100
Detector Forward Voltage (per channel) (I <sub>F</sub> = 10μA)	Typ. —	Max. 20
Reverse Voltage (I <sub>R</sub> = 1μA)	800	—



\*DIG 12-06-100C and DIG 12-06-250C Forward Voltage is Rated at 3.40V Max.