查询IS3020供应商 捷多邦，专业PCB打样工厂，24小时加急出货

IS3020
IS3021,IS3022

OPTICALLY COUPLED BILATERAL SWITCH NON-ZERO CROSSING TRIAC

DESCRIPTION

The IS3020, IS3021 and IS3022 are optically coupled isolators consisting of a Gallium Arsenide infrared emitting diode coupled with a light activated silicon bilateral switch performing the functions of a triac mounted in a standard 6 pin dual-in-line package.

FEATURE

- Options :-
  10mm lead spread - add G after part no.
  Surface mount - add SM after part no.
  Tape&reel - add SMT&R after part no.
- High Isolation Voltage ($5.3kV_{RMS}$,$7.5kV_{PK}$)
- 400V Peak Blocking Voltage
- All electrical parameters 100% tested
- Custom electrical selections available

APPLICATIONS

- CRTs
- Power Triac Driver
- Motors
- Consumer appliances
- Printers

ABSOLUTE MAXIMUM RATINGS
(25 °C unless otherwise noted)

Storage Temperature	-40°C - +150°C
Operating Temperature	-40°C - +100°C
Lead Soldering Temperature (1.6mm from case for 10 seconds)	260°C
Input-to-output Isolation Voltage (Pk) (60 Hz , 1sec. duration)	7500 Vac

INPUT DIODE

Forward Current	50mA
Reverse Voltage	6V
Power Dissipation (derate linearly 1.33mW/°C above 25°C)	70mW

OUTPUT PHOTO TRIAC

Off-State Output Terminal Voltage	400V
Forward Current (Peak)	1A
Power Dissipation (derate linearly 4.0mW/°C above 25°C)	300mW

POWER DISSIPATION

Total Power Dissipation (derate linearly 4.4mW/°C above 25°C)	330mW

OPTION SM
SURFACE MOUNT

OPTION G

ISOCOM COMPONENTS LTD
Unit 25B, Park View Road West,
Park View Industrial Estate, Brenda Road
Hartlepool, Cleveland, TS25 1YD
Tel: (01429) 863609 Fax :(01429) 863581

ISOCOM INC
1024 S. Greenville Ave, Suite 240,
Allen, TX 75002 USA
Tel: (214) 495-0755 Fax: (214) 495-0901
e-mail info@isocom.com
http://www.isocom.com

找PDF 维库一下 pdf.dzsc.com

ELECTRICAL CHARACTERISTICS (T_A = 25°C Unless otherwise noted)

PARAMETER		MIN	TYP	MAX	UNITS	TEST CONDITION
Input	Forward Voltage (V_F) Reverse Current (I_R)		1.2	1.5 100	V µA	I_F = 10mA V_R =6V
Output	Peak Off-state Current (I_{DRM}) Peak Blocking Voltage (V_{DRM}) On-state Voltage (V_{TM}) Critical rate of rise of off-state Voltage (dv/dt) (note 1) Critical rate of rise of commutating Voltage (dv/dt) (note 1)	 400 0.1	 1.5 10 0.2	100 3.0 	nA V V V/µs V/µs	V_{DRM} = 400V (note 1) I_{DRM} = 100nA I_{TM} = 100mA (peak) I load = 15mA, V_{IN} = 30V (fig 1.)
Coupled	Input Current to Trigger (I_{FT})(note 2) IS3020 IS3021 IS3022 Holding Current , either direction (I_H) Input to Output Isolation Voltage V_{ISO}	 5300 7500	 100 	 30 15 10 	 mA mA mA µA V_{RMS} V_{PK}	 V_D = 3V (note 2) See note 3 See note 3

Note 1. Test voltage must be applied within dv/dt rating.
Note 2. Guaranteed to trigger at an I_F value less than or equal to max. I_{FT}, recommended I_F lies between Rated I_{FT} and absolute max. I_{FT}.
Note 3. Measured with input leads shorted together and output leads shorted together.

FIGURE 1