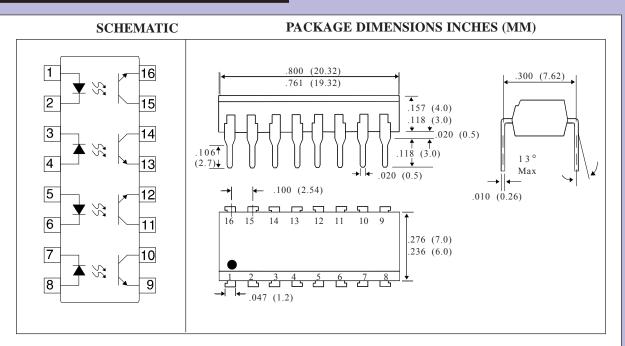
IS849

OPTICALLY COUPLED ISOLATOR TRANSISTOR OUTPUT





DESCRIPTION

The IS849 is an optically coupled isolator consisting of Gallium Arsenide infrared emitting diodes and NPN silicon phototransistors mounted in a standard 16-pin dual-in-line package with four channels per unit.

FEATURES

• Also available in single, dual package

ABSOLUTE MAXIMUM RATINGS ($25^\circ \mathrm{C}$ unless otherwise noted)

Storage Temperature	-55°C to +125°C	
Operating Temperature	-30°C to +100°C	
Lead Soldering Temperature	2	
(2mm from case for 10 seconds)	260°C	
Input-to-Output Isolation V	oltage 5000V _{RMS}	

APPROVALS

• UL Approved Package System " FF "

INPUT DIODE

Forward D.C. Current	50mA
Reverse D.C. Voltage	6V
Peak Forward Current	1A
$(p.w. \le 100 \mu s, duty ratio 0.001)$	
Power Dissipation	70mW
(derate linearly 1.33mW/°C above 25°C)	

OUTPUT TRANSISTOR

Collector-emitter Voltage BV _{CEO}	35V
Power Dissipation	150mW
(derate linearly 1.50mW/°C above 25°C)	

PACKAGE

Total Power Dissipation

____ 170mW

DB92056

ISOCOMCOMPONENTSLTD

Unit 25B, Park View Road West, Park View Industrial Estate, Brenda Road Hartlepool, Cleveland, TS25 1UD Tel: (0429)863609 Fax :(0429)863581

PARAMETER		MIN	ТҮР	MAX	UNITS	TEST CONDITION
Input	Forward Voltage (V_F)		1.2	1.4	Volt	$I_F = 20 \text{ mA}$
	Reverse Current (I _R)			10	μΑ	$V_{R} = 4V$
Output						
	Collector-emitter Voltage (BV _{CEO})	35			Volt	$I_c = 1mA$
	Emitter-collector Voltage (BV _{ECO})	7	9		Volt	$I_{E} = 0.1 \text{ mA}$
	Collector-emitter Dark Current (I _{CEO})			100	nA	$V_{\rm CE} = 20 \ {\rm V}$
Coupled	DC Current Transfer Ratio (CTR)	50		400	%	$I_{F} = 5mA, V_{CE} = 5V$
	Collector-emitter Saturation Voltage V_{CE} (Sat)			0.2	Volt	$I_{\rm F} = 20$ mA, $I_{\rm C} = 1$ mA
	Floating Capacitance (C_F)		0.6	1	pf	V = 0, f = 1 Mhz
	-	5x10 ¹⁰	1011		Ω	$V_{IO} = 500V$ (see note 1)
	Inout to Output Isolation Voltage	5000			V _{RMS}	(note 1)
	Response Time Rise(tr)			15	μS	$I_{c} = 2mA, V_{cE} = 2V$
	Response Time Fall (tf)			15	μS	$R_{L} = 100\Omega$

ELECTRICAL CHARACTERISTICS (25°C unless otherwise noted)

Note 1. Measured with input leads shorted together and output leads shorted together.

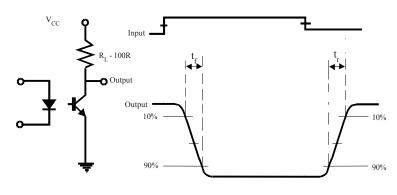


FIG 1

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