mail

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

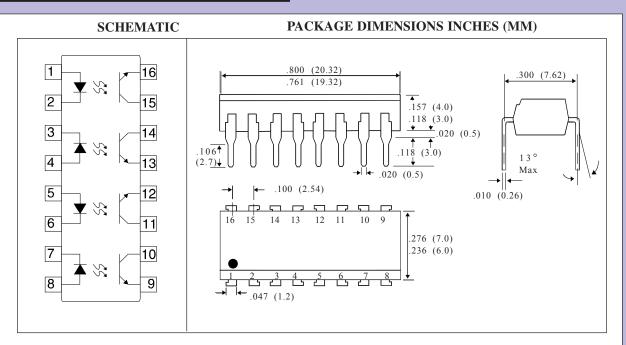
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IS849

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/ ^o C above 25 ^o C)	1001111

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	$I_{\rm F} = 20 \text{ mA}, I_{\rm C} = 1 \text{ mA}$
	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.

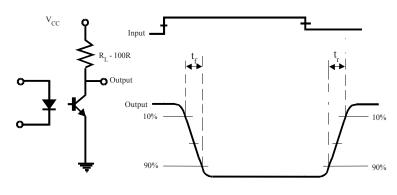


FIG 1