

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!



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H11A1X, H11A2X, H11A3X, H11A4X, H11A5X H11A1, H11A2, H11A3, H11A4, H11A5



OPTICALLY COUPLED ISOLATOR PHOTOTRANSISTOR OUTPUT



APPROVALS

UL recognised, File No. E91231 Package Code " GG "

'X'SPECIFICATIONAPPROVALS

- VDE 0884 in 3 available lead form: -
 - STD
 - G form
 - SMD approved to CECC 00802
- H11A1-4Certified to EN60950 by:-Nemko-Certificate No. P01102464

DESCRIPTION

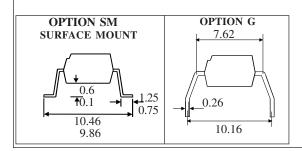
The H11A series of optically coupled isolators consist of infrared light emitting diode and NPN silicon photo transistor in a standard 6 pin dual in line plastic package.

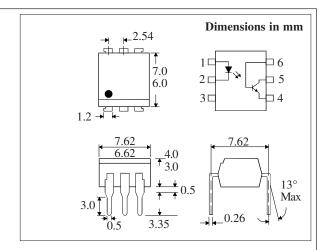
FEATURES

- Options:-
 - 10mm lead spread add G after part no. Surface mount - add SM after part no. Tape&reel - add SMT&R after part no.
- $\begin{array}{l} \mbox{High Isolation Voltage} \, (5.3 \mbox{kV}_{\mbox{\tiny RMS}}, \! 7.5 \mbox{kV}_{\mbox{\tiny PK}}) \\ \mbox{All electrical parameters} \, 100\% \, \mbox{tested} \end{array}$
- Custom electrical selections available

APPLICATIONS

- DC motor controllers
- Industrial systems controllers
- Measuring instruments
- Signal transmission between systems of different potentials and impedances





ABSOLUTEMAXIMUMRATINGS (25°C unless otherwise specified)

Storage Temperature __ $_{-}$ -55°C to + 150°C Operating Temperature _ $_{-}$ -55°C to + 100°C Lead Soldering Temperature (1/16 inch (1.6mm) from case for 10 secs) 260°C

INPUTDIODE

Forward Current	60mA
Reverse Voltage	6V
Power Dissipation	105mW

OUTPUTTRANSISTOR

Collector-emitter Voltage BV _{CEO}	30V
Collector-base Voltage BV	70V
Emitter-collector Voltage BV _{ECO}	6V
Collector Current	50mA
Power Dissipation	160mW

POWER DISSIPATION

Total Power Dissipation	200mW
(derate linearly 2.67mW/°C above 25°C))

ISOCOM COMPONENTS 2004 LTD

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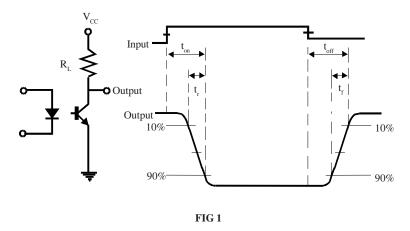
17/7/08 DB91041

ELECTRICAL CHARACTERISTICS ($\rm T_{A}{=}~25^{\circ}C$ Unless otherwise noted)

	PARAMETER	MIN	TYP	MAX	UNITS	TEST CONDITION
Input	Forward Voltage (V _F)		1.2	1.5	V	$I_F = 10mA$
	Reverse Current (I_R)			10	μΑ	$V_R = 6V$
Output	Collector-emitter Breakdown (BV _{CEO}) (note 2)	30			V	$I_C = 1mA$
	Collector-base Breakdown (BV _{CBO})	70			V	$I_a = 100 \mu A$
	Emitter-collector Breakdown (BV _{ECO})	6			V	$I_{C} = 100\mu A$ $I_{E} = 100\mu A$
	Collector-emitter Dark Current (I _{CEO})			50	nA	$V_{CE} = 10V$
Coupled	Current Transfer Ratio (CTR)					
_	H11A1	50			%	10mA I_{F} , 10V V_{CE}
	H11A2	20			%	10mA I_{F} , 10V V_{CE}
	H11A3	20			%	10mA I_{F} , 10V V_{CE}
	H11A4	10			%	10mA I_{F} , 10V V_{CE}
	H11A5	30			%	10mA I_{F} , 10V V_{CE}
	Collector-emitter Saturation VoltageV _{CE(SAT)}			0.4	V	10mA I_{F} , $0.5\text{mA I}_{\text{C}}$
	Input to Output Isolation Voltage V _{ISO}	5300			V _{RMS}	See note 1
	- 150	7500			V _{PK}	See note 1
	Input-output Isolation Resistance R _{ISO}	$5x10^{10}$			Ω	$V_{IO} = 500V \text{ (note 1)}$
	Output Rise Time tr		2		μs	$V_{CC} = 5V, I_F = 10mA$
	Output Fall Time tf		2		μs	$R_L = 75\Omega$ fig 1

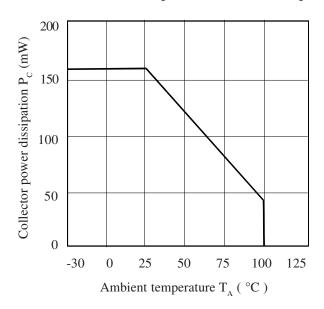
Note 1 Measured with input leads shorted together and output leads shorted together.

Note 2 Special Selections are available on request. Please consult the factory.

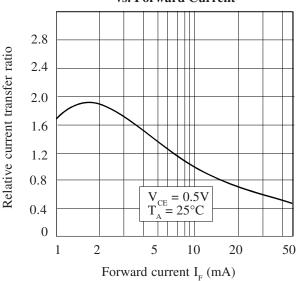


177/08 DB91041m-AAS/A3

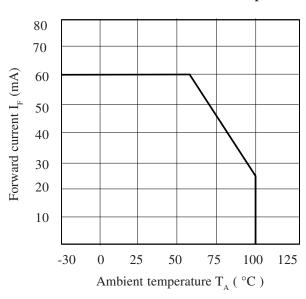
Collector Power Dissipation vs. Ambient Temperature



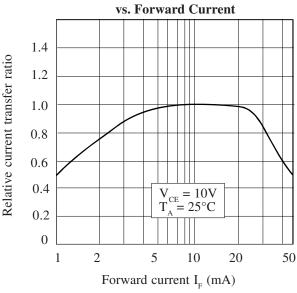
Relative Current Transfer Ratio vs. Forward Current



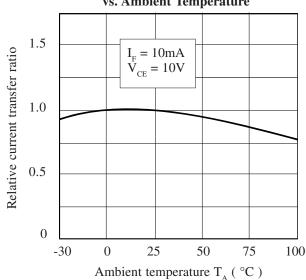
Forward Current vs. Ambient Temperature



Relative Current Transfer Ratio



Relative Current Transfer Ratio vs. Ambient Temperature



Collector-emitter Saturation

