

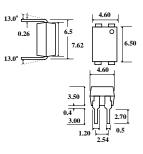
SHF615A-3

Transistor Optically Coupled Isolator

Isocom Ltd supplies high reliability devices for applications requiring an operating temperature range of -55° C to $+100^{\circ}$ C

Devices supplied are approved to BS9400, and have completed rigorous testing. Various high reliability test options are offered.

As a manufacturer of high reliability optocouplers, the Isocom Ltd manufacturing plant in the North East of England has site approval to BS9000 (registration number 1294/M) and CECC20000 (registration number M/1084/CECC/UK) issued by the British Standards Institution.



Together with CECC, BS9000 is a preferred standard for use in European military projects. Consequently, Isocom Ltd's approved devices are listed in the CECC "MUAHAG" preferred products list.

The BS9000 approval is also recognised as meeting the equivalent criteria to those required by BS5750/IS09000/EN29000.

The Company's customers can be assured of our commitment to stringent quality, reliability and inspection standards, as demonstrated by our existing approvals. Other customer specific options can also be offered.

Features	Applications	
Current transfer ratio (CTR: min 100%)	Automatic vending machines	4 3
High Electrical Isolation (2,800VRMS)	System appliances	
Compact dual-in-line package	Computer terminals	
	Microwave ovens	
	Medical instruments	

Isocom Ltd reserves the right to change the details on this specification without notice. Please consult Isocom Ltd prior to use. Isocom Ltd cannot accept liability for any errors or omissions. For sales enquiries, or further information, please contact our sales office at: Isocom Ltd, Hutton Close, Crowther Industrial Estate, District 3, Washington, NE38 0AH

Tel: +44 0191 4166 546 Fax: +44 0191 4155 055 Email <u>Isocom@isocomoptocouplers.com</u> Or go to the Isocom Website @: <u>Http://www.isocom.uk.com</u>

Description

The SFH615A-3 is a single channel device in a dual-in-line package suitable for mounting in printed circuite board assemblies. The device incorporates a high radiance LED and phototransistor detector.

Absolute Maximum Ratings

Storage temperature .		-55°C to +150°C
Operating temperature		-55°C to +100°C
Input-to-output isolation voltag	е	2,800VRMS

Input Diode

Output Phototransistor

Forward DC current	I _F =60mA	Collector-emitter voltage	Bv _{ceo} =70V
Reverse DC voltage	V _R =6.0V	Emitter-collector voltage	Bv _{eco} =6.0V
Peak forward current	I _{FM} =2.5A.	Collector current	I _C =50mA
Power Dissipation	P =100mW	Collector current (t≤	I _C =100mA
Power Dissipation	P _{tot} =250mW	Power Dissipation	P _C =150mW

Electrical Characteristics T_A = 25^oC

parameter	symbol	Test Conditions	min	*typ	max	Units
Forward voltage	V _F	I _F =60mA		1.25	1.65	V
Breakdown voltage	V _{BR}	I _R =10μA		30	36	V
Reverse Current	I _R	V _R =6V		0.01	10	μA
Collector emitter saturation voltage	V _{CE(SAT)}	I _F =10mA, I _C =2.5mA		0.25	0.4	V
		I _C =2.5mA				
Current transfer ratio	CTR	IF =10mA	100		200	%
Turn-on time	t _{on}	IF =5mA V_{CC} =5V,		4.2	8.0	μS
Turn-off time	t _{off}	RL =2KΩ		23	39	μS

Isocom Ltd reserves the right to change the details on this specification without notice. Please consult Isocom Ltd prior to use. Isocom Ltd cannot accept liability for any errors or omissions.

For sales enquiries, or further information, please contact our sales office at:

Isocom Ltd, Hutton Close, Crowther Industrial Estate, District 3, Washington, NE38 0AH Tel: +44 0191 4166 546 Fax: +44 0191 4155 055 Email <u>Isocom@isocomoptocouplers.com</u> Or go to the Isocom Website @: <u>Http://www.isocom.uk.com</u>