

H11GXF Series

Rev.A.1.1

DESCRIPTION:

The H11GXF series combine an AlGaAs infrared emitting diode as the emitter which is optically coupled to a monolithic silicon zero-cross photo triac to drive a power triac in a plastic DIP5 package with different lead forming options. The products are widely used in solenoid/valve controls, lighting controls, motor controls, temperature controls, static AC power switches, solid state relays, interfacing microprocessors to 265 V_{AC} peripherals.

MAIN FEATURES

High isolation 5000 Vrms

DC input with triac output

Operating temperature range - 40°C to 85 °C

REACH & RoHS compliance

MSL class 2

HBM: H3A; MM: M4

CQC approved

VDE approved

UL approved

ABSOLUTE MAXIMUM RATINGS (Temperature=25°C)

Parameter		Symbol	Value	Unit
Input	Forward Current	I _F	60	mA
	Peak Forward Current	I _{FP}	1 ⁷	A
	Reverse Voltage	V _R	6	V
Output	Repetitive peak off-state voltage	V _{DRM}	600	V
	Repetitive peak off-state voltage	V _{RRM}	600	V
	Critical rate of rise of on-state current	di/dt	70	A/s
	On-state RMS Current	H11G0F	I _{T(RMS)}	0.3
H11G1F		0.6		



BDC 1-BDC72-9520472205004 4208061W6.8.06 W0670TW TC-56006 TW-BDS

Operating Temperature

T_{opr}

ORDERING AND MARKING INFORMATION

MARKING INFORMATION



Characteristics Curves

FIG.1: Forward Current vs. Ambient Temperature

FIG.2: On-state Terminal Current vs. Ambient Temperature

FIG.7: On-state Terminal Voltage vs. Ambient Temperature

FIG.8: Normalized Holding Current vs. Ambient Temperature



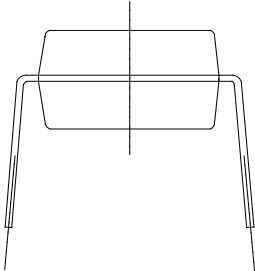
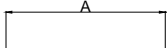
TEST CIRCUITS

FIG.11: Test Circuits of Turn On Time

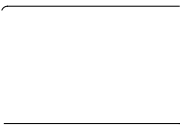
FIG.12: Waveforms of Turn On Time

Package Dimension (Unit: mm)

Standard DIP Type:

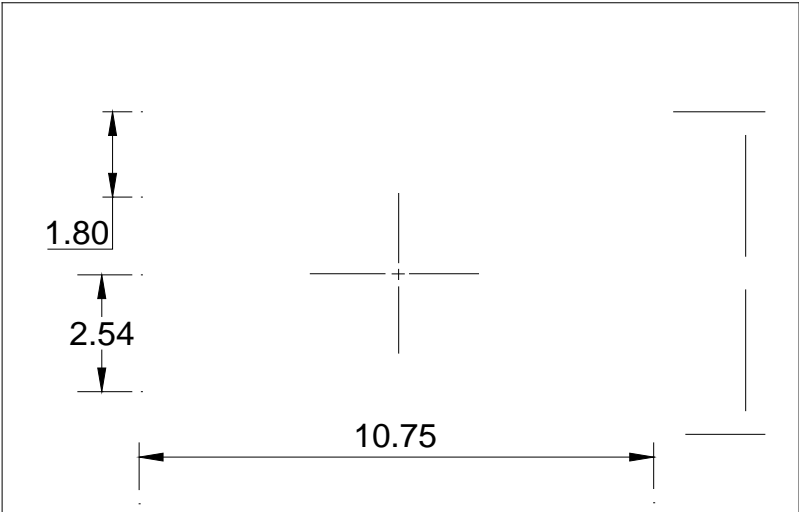


Option SL Type:

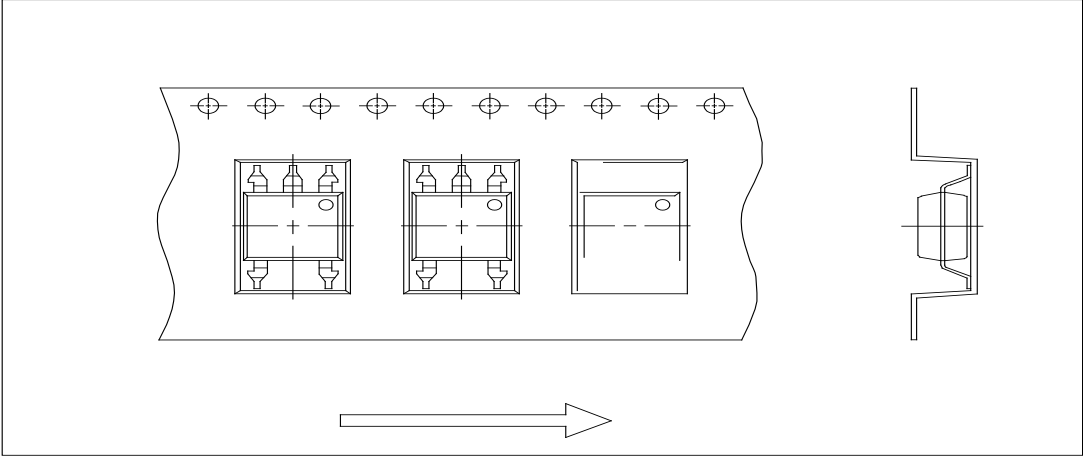


RECOMMENDED SOLDER MASK DIMENSIONS in mm unless otherwise stated)

SL:



Option SLM(T1)



Document Revision History

Date	Revision	Changes
Feb.21, 2025	A.1.0	Last update
Nov.7, 2025	A.1.1	Add (dV/dt)c

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