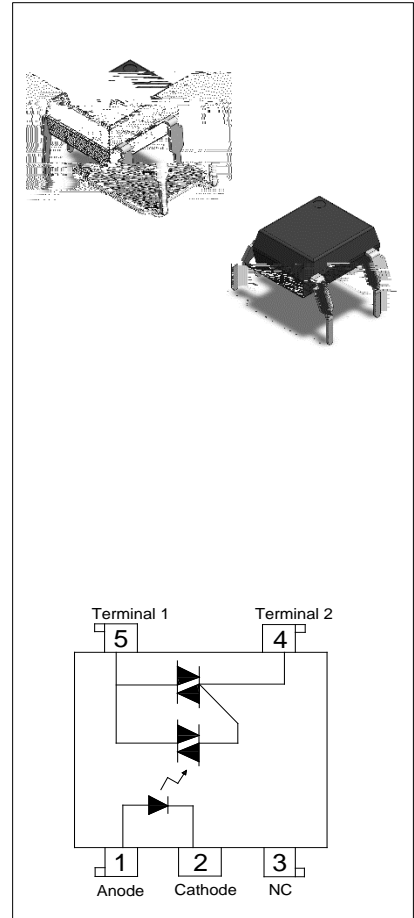




H11BXF Series

Rev.A.1.1

The H11BXF series combine an AlGaAs infrared emitting diode as the emitter which is optically coupled to a monolithic silicon random-phase 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.



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

(Temperature=25°C)

Parameter		Symbol	Value	Unit	
Input	Forward Current	I_F	60	mA	
	Peak Forward Current	I_{FP}	1	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/ μ s	
	On-state RMS Current	H11B0F	$I_{T(RMS)}$	0.3	A
		H11B1F		0.6	
	Non repetitive surge peak on-state current (full cycle , $t_p=20ms$)	H11B0F	I_{TSM}	3	A
H11B1F		6			
Isolation Voltage		V_{iso}	5000	Vrms	

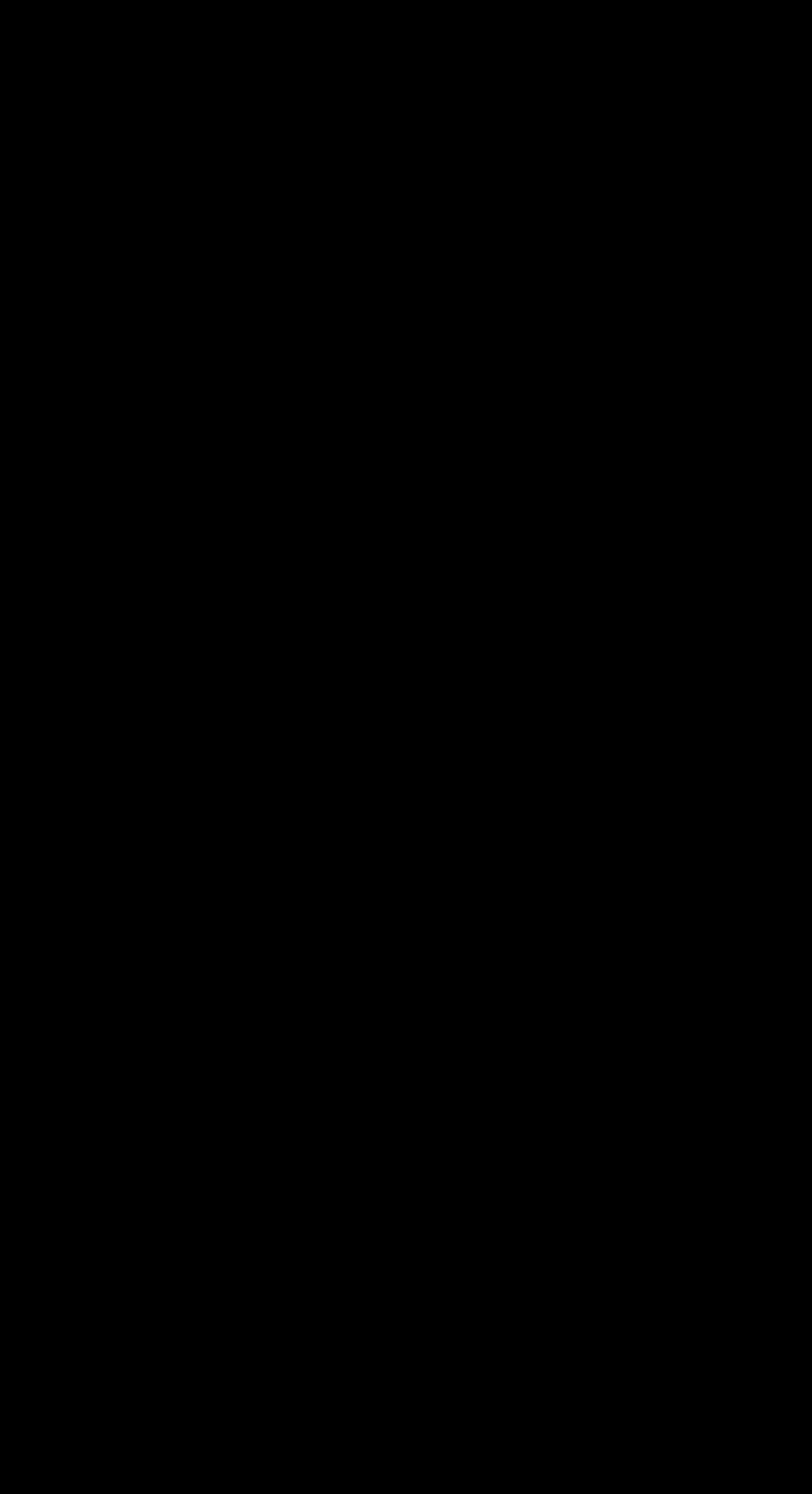
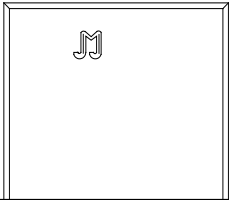


FIG.1: Forward Current vs. Ambient Temperature

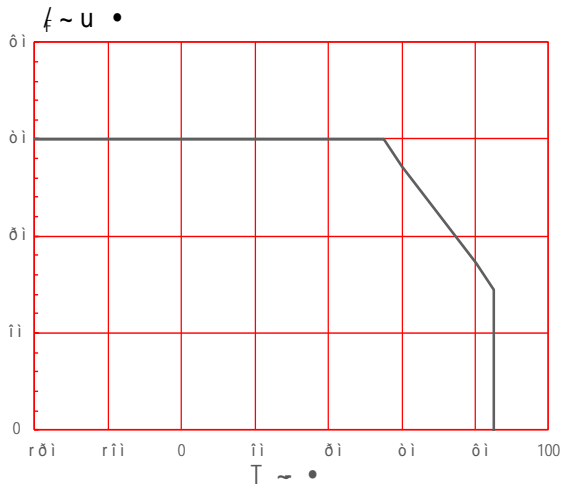


FIG.2: On-state Terminal Current vs. Ambient Temperature

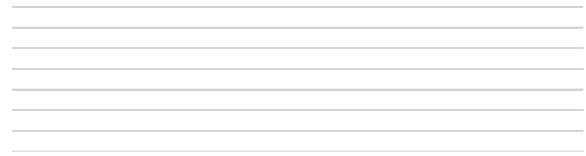
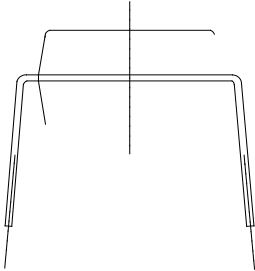


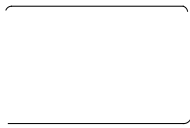
FIG.10: Test Circuits of Turn On Time

FIG.11: Waveforms of Turn On Time

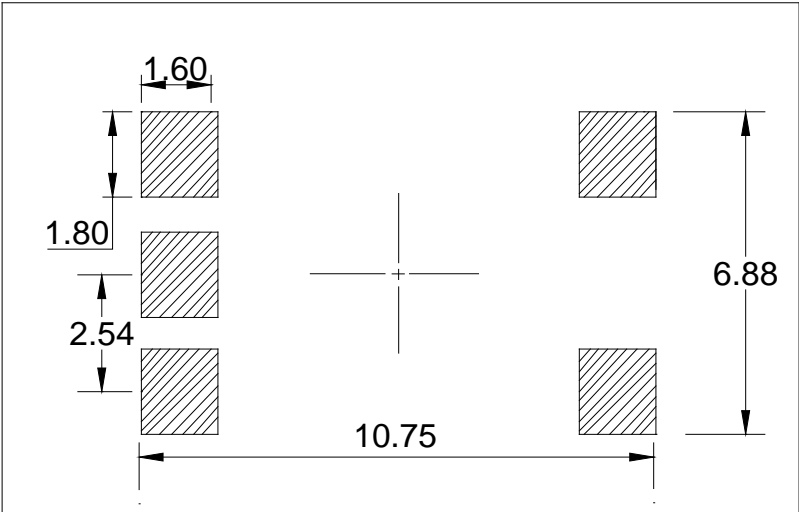
Standard DIP Type:



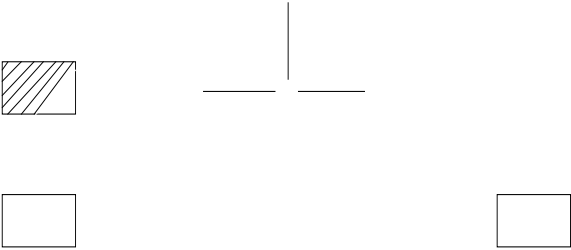
Option SL Type:



SL:

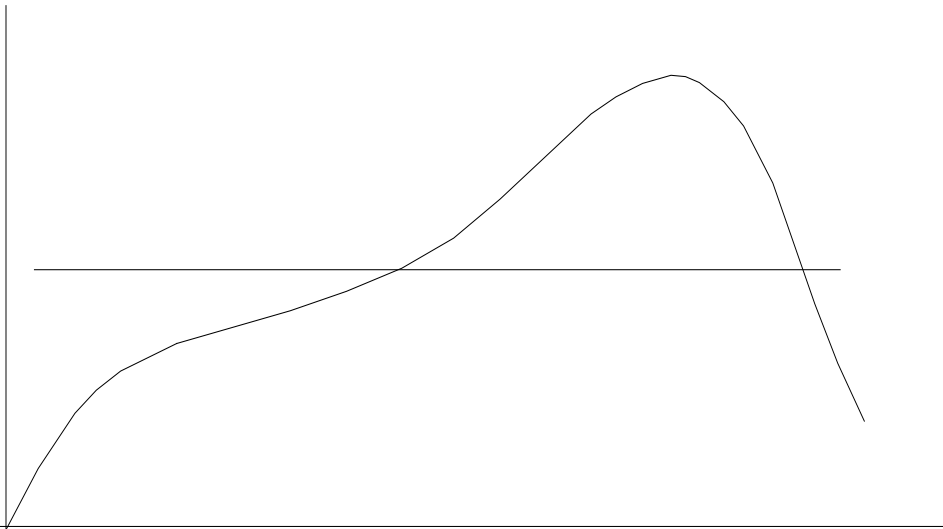
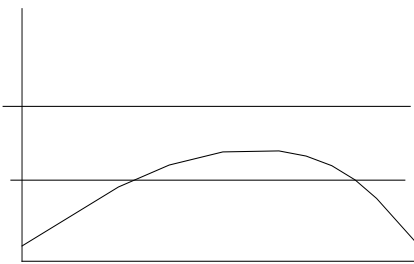
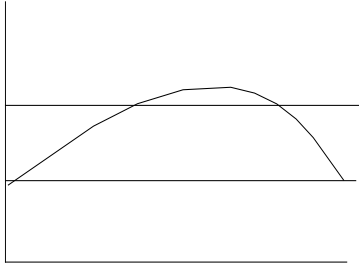


SLM:



H11BXF

JieJie



H11BXF

