



DESCRIPTION:

The products are 5-pin optical relays. The device combines an AlGaAs infrared emitting diode input stage optically coupled to a high-voltage output detector circuit. The detector consists of a high-speed photovoltaic diode array and driver circuitry to switch on/off two discrete 1800V high voltage MOSFETs. The relay action with a minimum input current of 5mA through the input LED. The products are widely used in accumulation, automotive battery management system, automobile battery and power system insulation testing, industrial controls and EMR/reed relay replacement.

MAIN FEATURES:

High isolation 5000 Vrms

Single channel normally on Single-Pole-Single-Throw Relay

Operating temperature range -40°C to 125°C

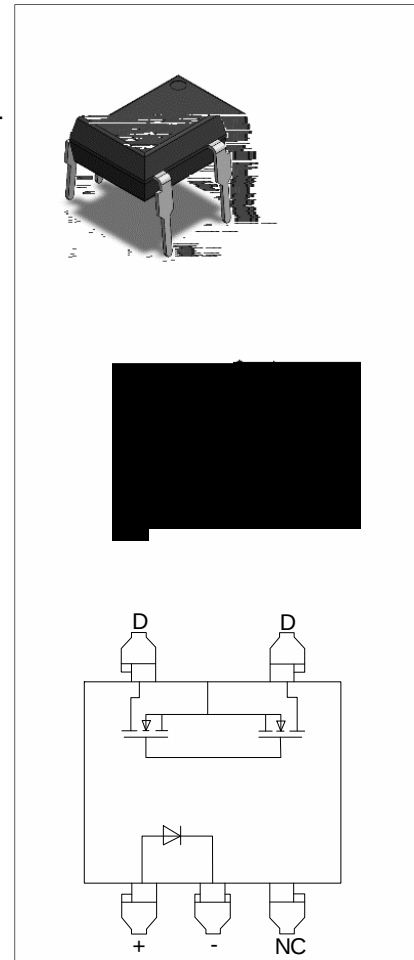
REACH & RoHS compliance

HBM: H3A; MM: M4; CDM: C3

CQC approved

VDE approved

UL approved



ABSOLUTE MAXIMUM RATINGS (Temperature=25°C)

Parameter		Symbol	Value	Unit
Input	Forward Current	I_F	50	mA
	Peak Forward Current	I_{FP}	1 ^W	A
	Reverse Voltage	V_R	6	V
	Power Dissipation	P_D	75	mW
Output	Switching Voltage	V_O	1800	V
	Continuous Load Current	I_O	10	mA
	Power Dissipation	P_C	360	mW
Operating Temperature		T_{opr}	-40~125	°C
Junction Temperature		T_j	135	°C
Storage Temperature		T_{stg}	-55~125	°C

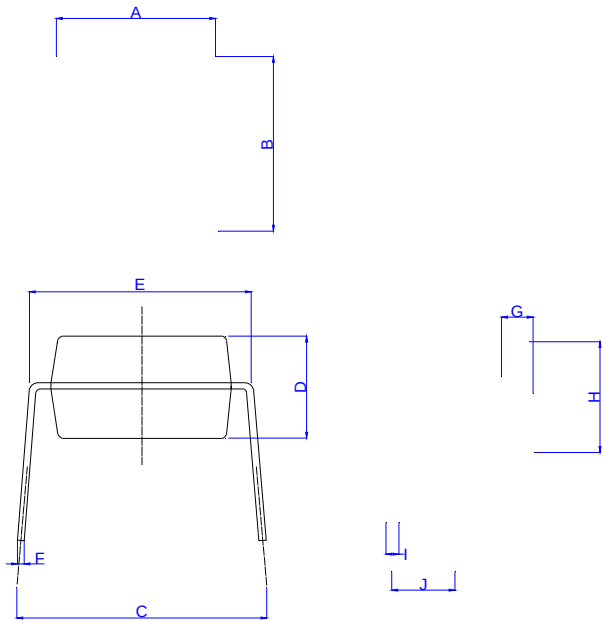
Total Power Dissipation	P_{tot}	450	mW
Isolation Voltage	V_{iso}	5000 ^①	Vrms
Soldering Temperature	T_{sol}	260	°C

NOTE1:**NOTE2:****ELECTRICAL CHARACTERISTICS** (Temperature=25°C)

Parameter		Symbol	Condition	Min.	Typ.	Max.	Unit
Input	Forward Voltage	V_F	$I_F=10mA$	-	1.2	1.5	V
	Reverse Current	I_R	$V_R=6V$	-	-	1	μA
	Terminal Capacitance	C_t	$V=0, f=1MHz$	-	30	-	pF
	Reset Current	$I_{F(OFF)}$	$I_O=I_{O(MAX)}$	0.4	-	-	mA
Output	Off-state Leakage Current	I_{OFF}	$V_O=1800V$	-	-	10	μA
	ON Resistance	R_{ON}	$I_O=I_{O(MAX)}, I_F=5mA$	-	200	500	Ω
Transfer Characteristics	LED Trigger Current	I_{FT}	$I_O=I_{O(MAX)}$	-	-	3	mA
	Floating Capacitance	C_{IO}	$V=0, f=1MHz$	-	3	-	pF
	Isolation Resistance	R_{ISO}	DC500V 40~60%R.H.	10^{12}	-	-	Ω
	Turn On Time	t_{on}	$I_O=10mA, I_F=5mA$	-	0.2	1	ms
	Turn Off Time	t_{off}	$I_O=10mA, I_F=5mA$	-	0.1	0.2	ms

Package Dimension (Unit: mm)

Standard DIP Type:

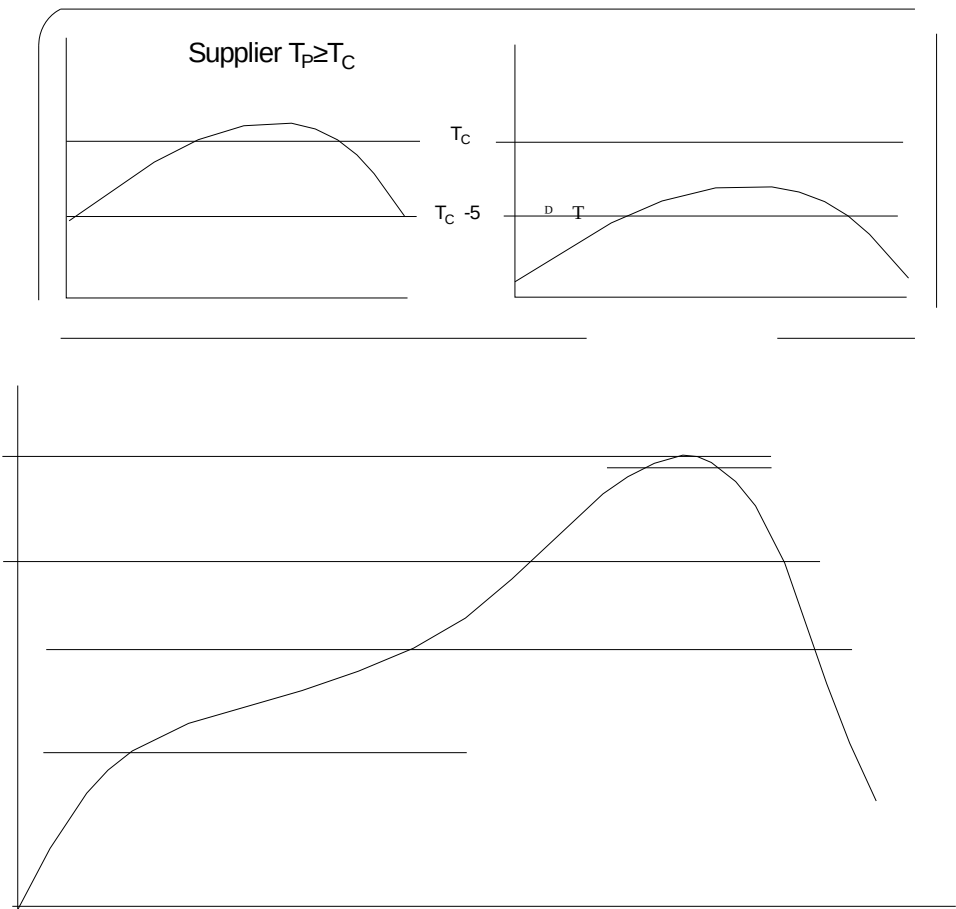


Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A						
B						
C						
D						
E						
F						
G						
H						
I						
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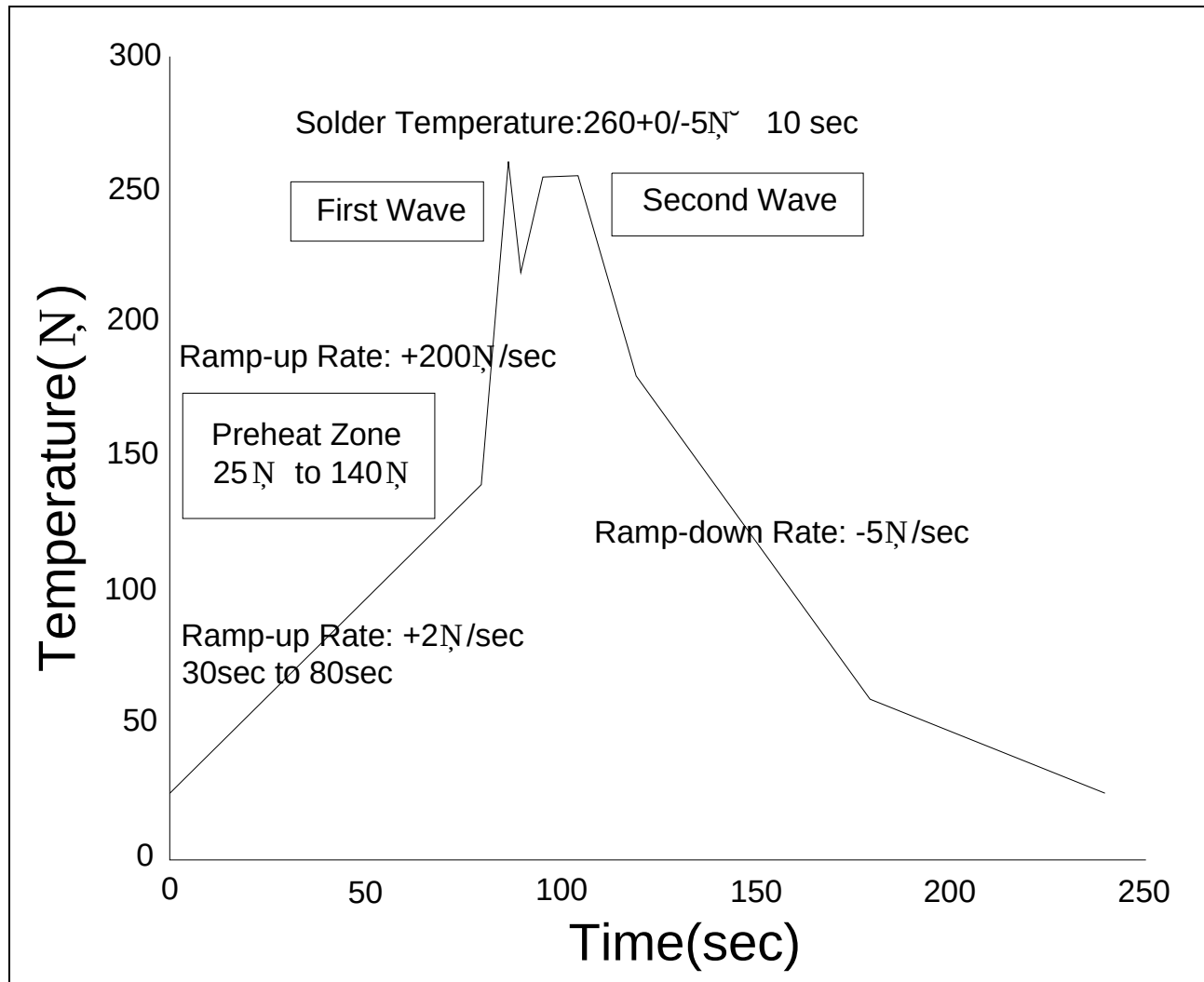
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Min. Mz. : ' τ Ref. Millimeters Dimensions Inches

REFLOW INFORMATION



WAVE SOLDERING



HAND SOLDERING BY SOLDERING IRON

Soldering Temperature	360 ± 5 °C
Soldering Time	3s max.

Note:

1. Reflow soldering is recommended at the temperatures and times shown, no more than three times.
2. Avoid direct contact between the epoxy body and any tools or surfaces exceeding its maximum storage temperature.
3. Application of pressure on the epoxy body is prohibited at elevated temperatures. In specific scenarios, any applied force must not exceed 2.5N.
4. Ensure the component has cooled to ambient temperature before proceeding with any subsequent manufacturing steps.
5. The component has a shelf life of one year when stored under standard conditions.
6. Recommend storage Temp.: 0~40°C;
Recommend storage humidity: <60%;
MSL level: MSL 1

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