





Total Power Dissipation	P_{tot}	325	mW
Isolation Voltage	V_{iso}	5000	V _{rms}
Operating Temperature	T_{opr}	-55~110	
Junction Temperature	T_j	125	
Storage Temperature	T_{stg}	-55~125	
Soldering Temperature	T_{sol}	260	
Peak pulse voltage ($T_j=25^\circ\text{C}$; non-repetitive, off-state)	V_{pp}	1	kV

NOTE1: μ

NOTE2:

ELECTRICAL CHARACTERISTICS (Temperature=25°C)

Parameter			Symbol	Condition	Min.	Typ.	Max.	Unit
Input	Forward Voltage		V_F	$I_F=10\text{mA}$	-	1.2	1.5	V
	Reverse Current		I_R	$V_R=6\text{V}$	-	-	1	μA
	Input Capacitance		C_{in}	$V=0, f=1\text{kHz}$	-	10	-	pF
Output	Peak Off-state Current, Either Direction		I_{OFF}	$V_{OFF}=\text{Rated } V_{OFF}$ $I_F=0$	-	-	100	nA
	Peak On-state Voltage, Either Direction		V_{TM}	$I_{TM}=100\text{mA}$	-	1.8	2.5	V
	Critical Rate of Rise of Off-state voltage		dV/dt	$V_{PEAK}=\text{Rated } V_{PEAK}$ $I_F=0$	2000	-	-	V/ μs
Transfer Characteristics	LED Trigger Current	JOCSR21A JOCSR31A	I_{FT}	Terminal Voltage=3V $I_{TM}=100\text{mA}$	-	-	10	mA
		JOCSR21B JOCSR31B			-	-	5	
		JOCSR21C JOCSR31C			-	-	3	
					-	-	-	
	Holding Current		I_H	$I_{TM}=2\text{mA}$, $I_F=\text{Rated } I_{FT}$	-	500	-	μA
	Isolation Resistance		R_{iso}	DC500V 40~60%R.H.	10^{12}	10^{14}	-	Ω
	Floating Capacitance		C_{io}	$V=0$, $f=1\text{MHz}$	-	5	-	pF
	Response Time		t_{on}	$V_D=6\text{V}$, $R_L=100\Omega$, $I_F=20\text{mA}$	-	15	50	μs

NOTE3:

NOTE4:



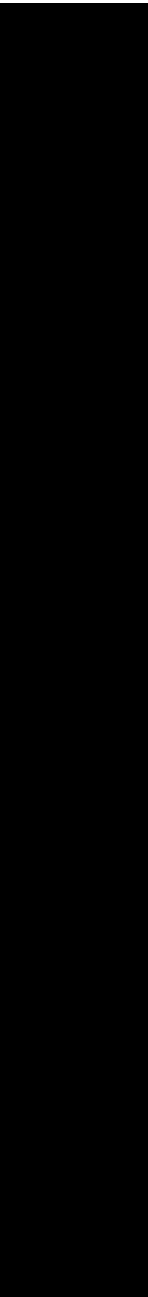
ORDERING INFORMATION

J	OC	S	R	2	1	A	-D5P/S	/
JieJie Microelectronics Co., Ltd.	Opto Coupler	SCR	Random phase			A: $I_{FT} \leq 10mA$ B: $I_{FT} \leq 5mA$ C: $I_{FT} \leq 3mA$	P:DIP5 S:SMD5	S:T3 L:T4
					$I_{T(RMS)}:100mA$ 2: $V_{OFF} \geq 600V$ 3: $V_{OFF} \geq 800V$			

Packing Quantity	
Option	Quantity

MARKING





TEST CIRCUITS

FIG.12: Test Circuits of Turn On Time



FIG.13: Waveforms of Turn On Time



Fig.14: Test Circuits of dV/dt

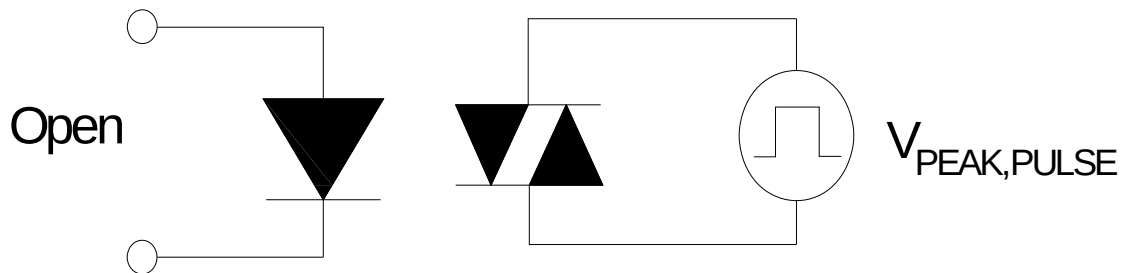


Fig.15: Waveforms of dV/dt

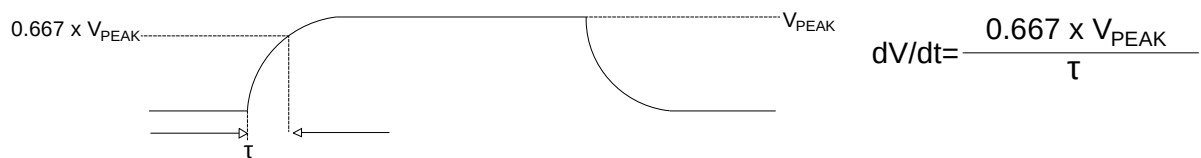
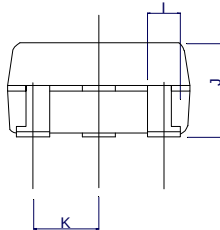
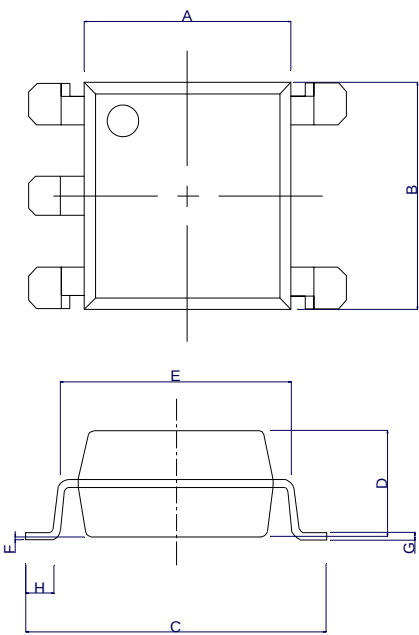




FIG.16: Test circuit for inductive and resistive loads to IEC-61000-4-5R # 6 } tē L É)tl # -

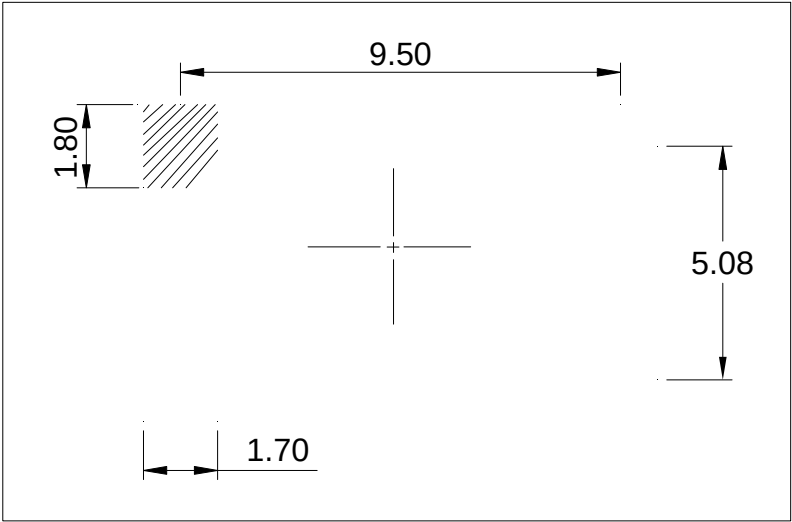
Option SMD Type:



Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	6.20		6.60	0.244		0.260
B	6.92		7.32	0.272		0.288
C	9.50		10.50	0.375		0.413
D	3.20		3.60	0.126		0.142
E	7.32		7.92	0.288		0.312
F	0.05		0.35	0.002		0.014
G	0.16		0.36	0.006		0.014
H	0.60		1.40	0.024		0.055
I	0.90		1.50	0.035		0.059
J	3.30		3.90	0.130		0.154
K	2.29		2.79	0.090		0.110

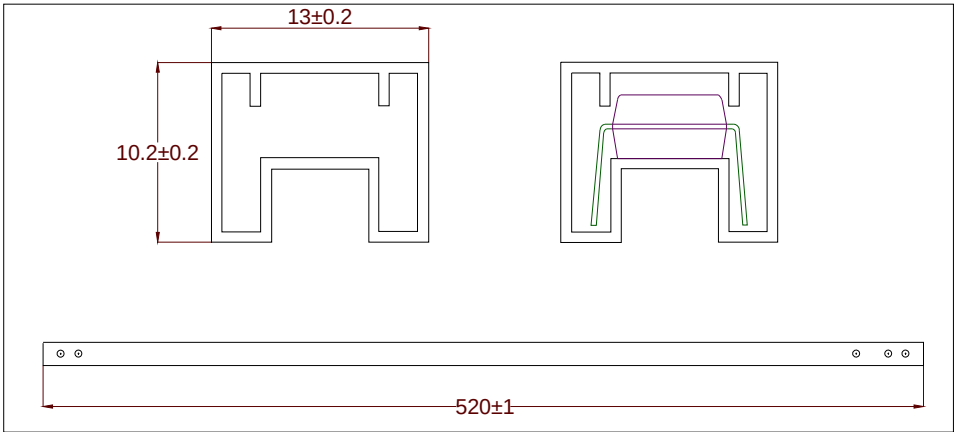
RECOMMENDED SOLDER MASK (Dimensions in mm unless otherwise stated)

Option SMD



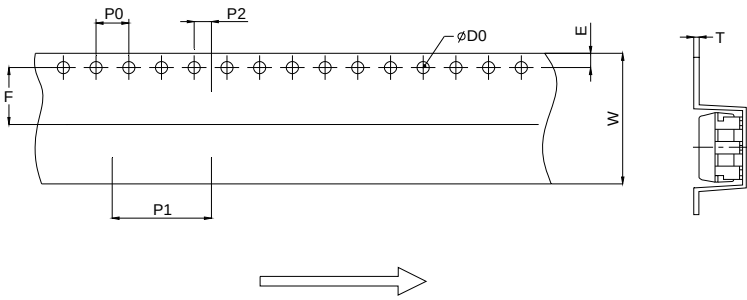
TUBE SPECIFICATIONS (Dimensions in mm unless otherwise stated)

Standard DIP



CARRIER TAPE SPECIFICATIONS (Dimensions in mm unless otherwise stated)

Option S/L

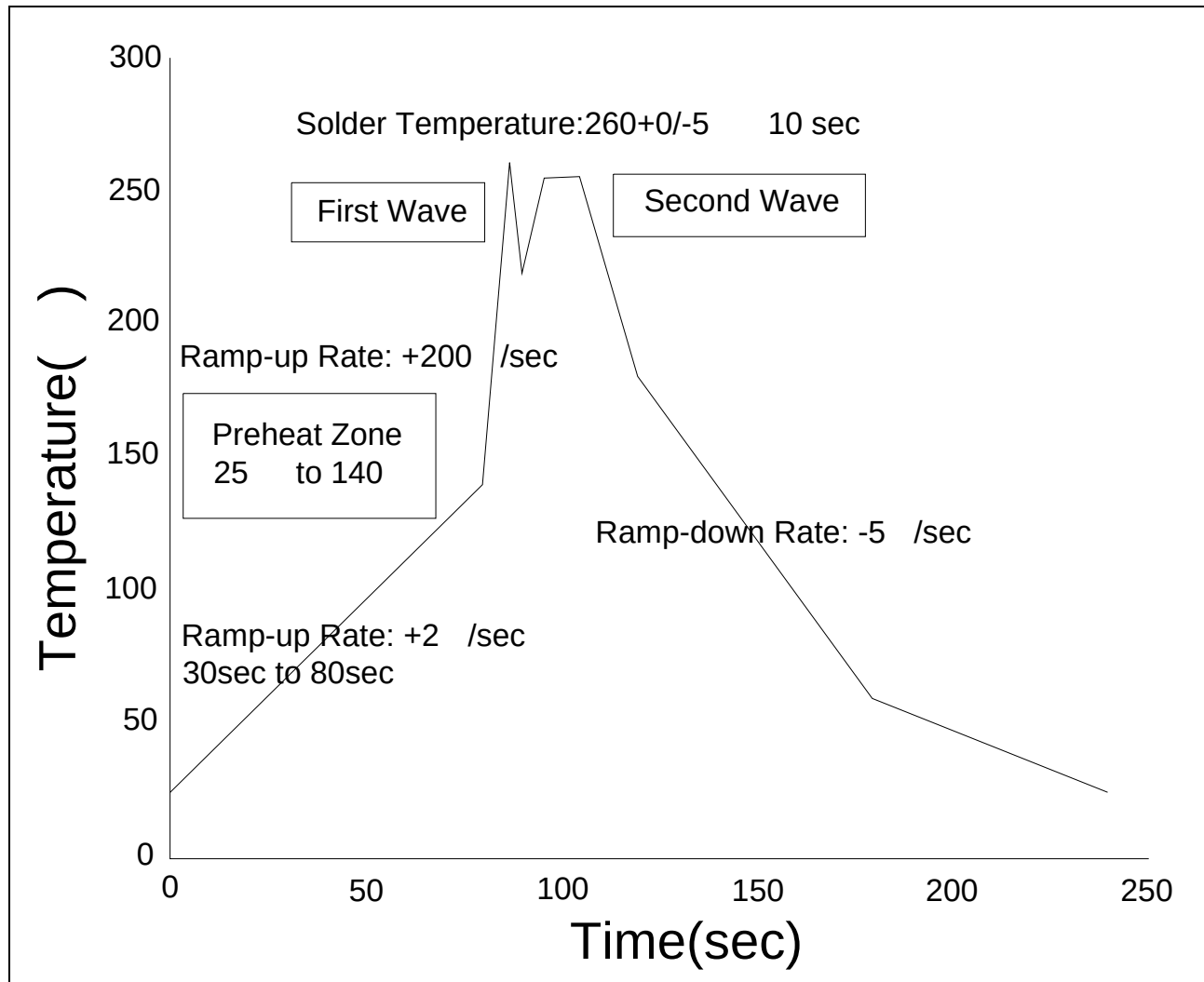


Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
D0		1.50	1.60		0.059	0.063
P0	3.90	4.00	4.10	0.154	0.157	0.161
P1	11.90	12.00	12.10	0.469	0.472	0.476
P2	1.90	2.00	2.10	0.075	0.079	0.083
E	1.65	1.75	1.85	0.065	0.069	0.073
F	7.40	7.50	7.60	0.291	0.295	0.299
T	0.35	0.40	0.45	0.014	0.016	0.018
W	15.70	16.00	16.30	0.618	0.630	0.642



REFLOW INFORMATION



**WAVE SOLDERING****HAND SOLDERING BY SOLDERING IRON**

Soldering Temperature	360 ± 5
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 be