





Total Power Dissipation	$P_{tot}$	325	mW
Isolation Voltage	$V_{iso}$	5000	Vrms
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 ( $T_j=25$ ; non-repetitive,off-state)	$V_{pp}$	1	kV

NOTE1:  $\mu$

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

NOTE3

NOTE4



ORDERING INFORMATION

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

MARKING





JOCSR21X,JOCSR31X

TEST CIRCUITS

FIG.12: Test Circuits of Turn On Time



FIG.13: Waveforms of Turn On Time



Fig.14: Test Circuits of dV/dt

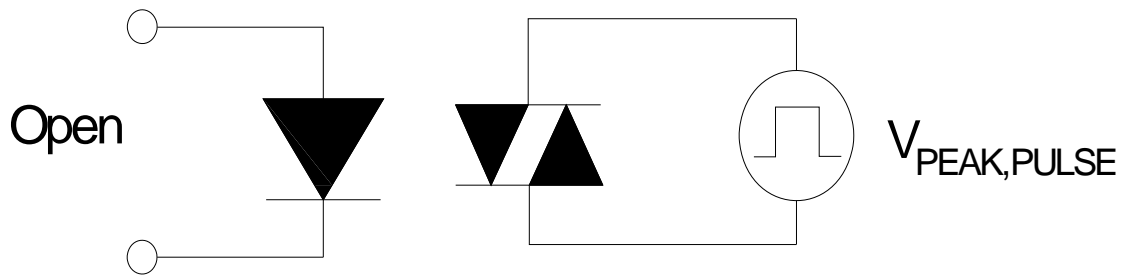
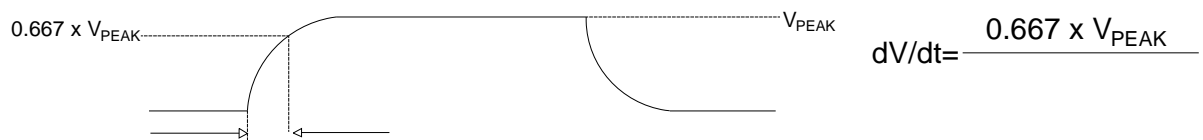
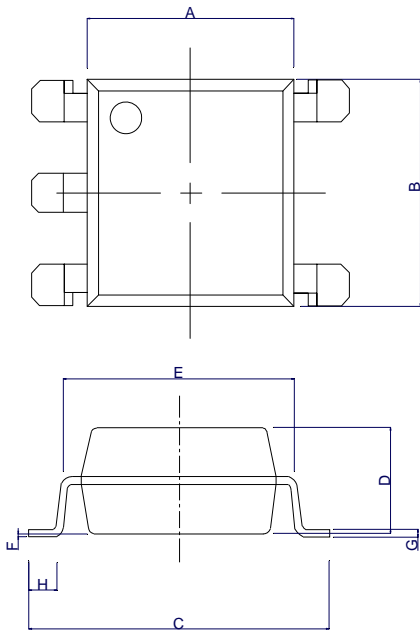


Fig.15: Waveforms of dV/dt





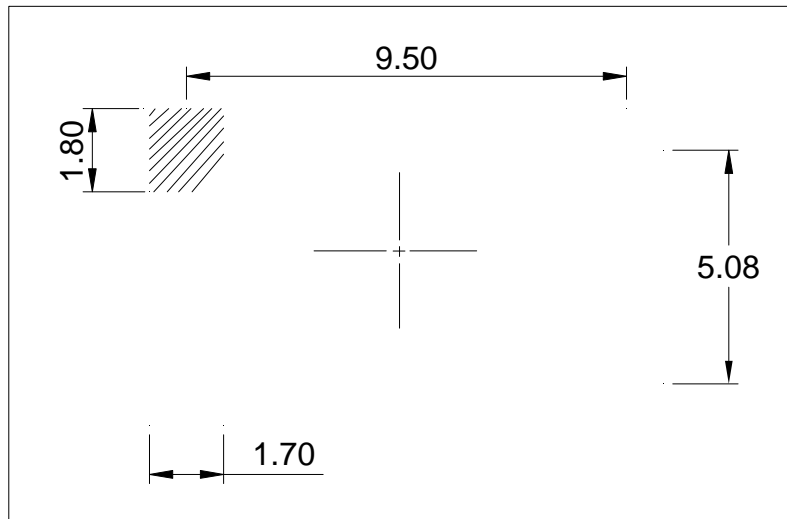
Option SMD Type:



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

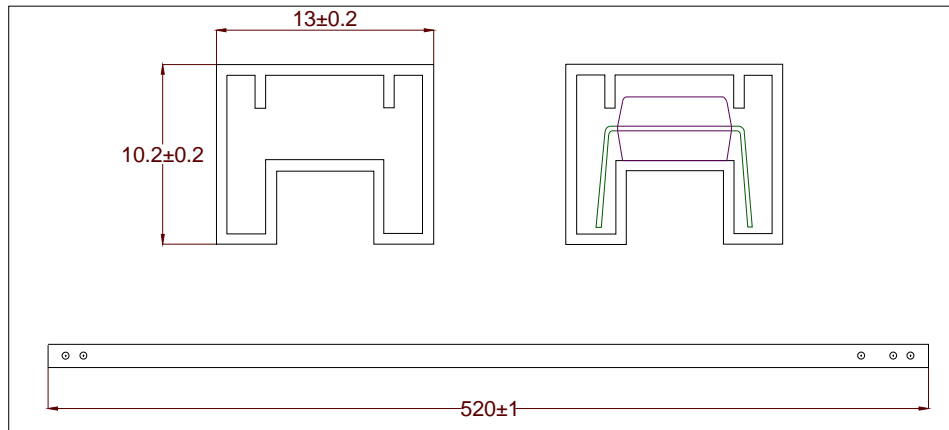
RECOMMENDED SOLDER MASK (Dimensions in mm unless otherwise stated)

Option SMD



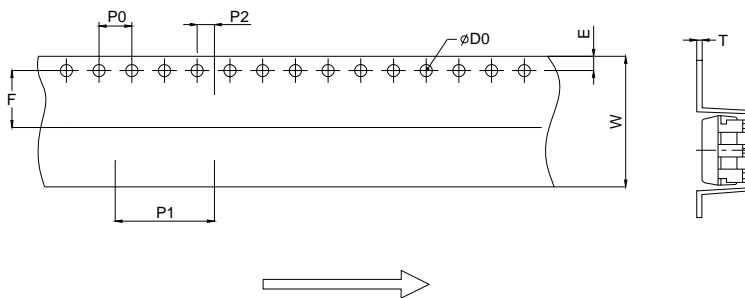
TUBE SPECIFICATIONS (Dimensions in mm unless otherwise stated)

Standard DIP



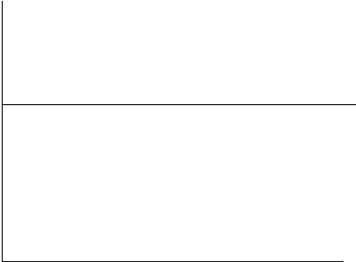
CARRIER TAPE SPECIFICATIONS (Dimensions in mm unless otherwise stated)

Option S/L

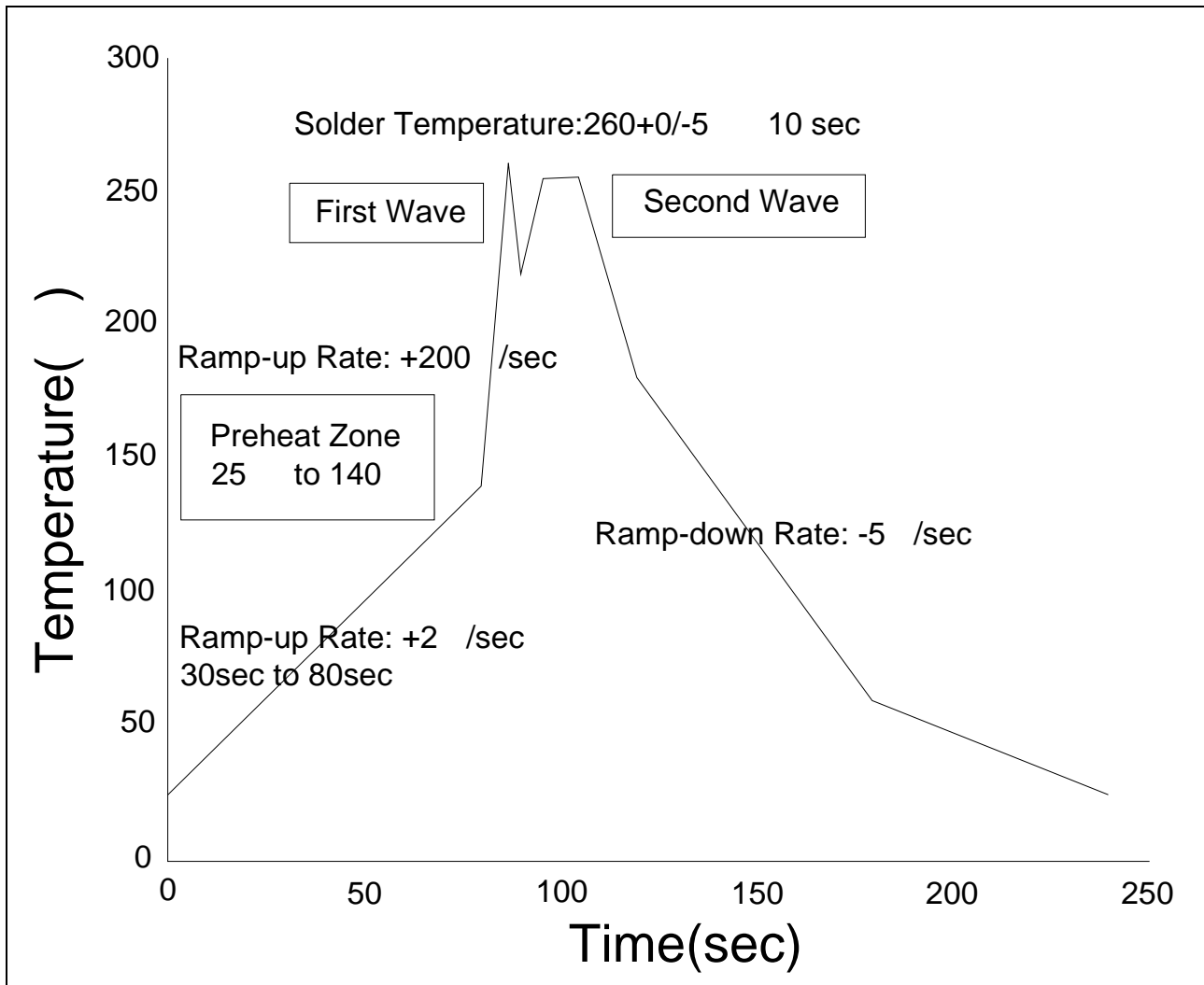


Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
D0		1.50	1.60		0.059	0.063
P0	3.90	4.00	4.10	0.154	0.157	0.161
P1	11.90	12.00	12.10	0.469	0.472	0.476
P2	1.90	2.00	2.10	0.075	0.079	0.083
E	1.65	1.75	1.85	0.065	0.069	0.073
F	7.40	7.50	7.60	0.291	0.295	0.299
T	0.35	0.40	0.45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