

SURFACE MOUNT GAS DISCHARGE TUBE

Compliance Standard

- ◆ IEC 61000-4-5
- ◆ GR1089
- ◆ ITU-T K.21
- ◆ ITU-T K.12

Applications

- ◆ T1/E1
- ◆ SLIC Line Interface
- ◆ ADSL/ISDN Line Interface
- ◆ Ethernet
- ◆ CATV

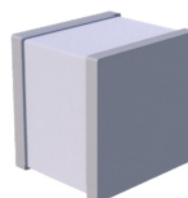
Features

- ◆ RoHS Compliant
- ◆ Long Service Life
- ◆ Low Capacitance (<1pF)
- ◆ Small Size

Mechanical Characteristics

- ◆ 5.0 x 5.0 x 4.2mm
- ◆ Weight 0.5 Gram (Approximate)
- ◆ Lead Free Plating
- ◆ Reel Size 13"
- ◆ 1000 PCS Per Reel

Package



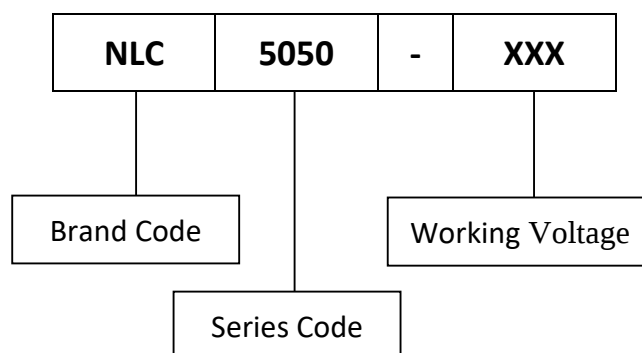
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Certification



File Number

E363592



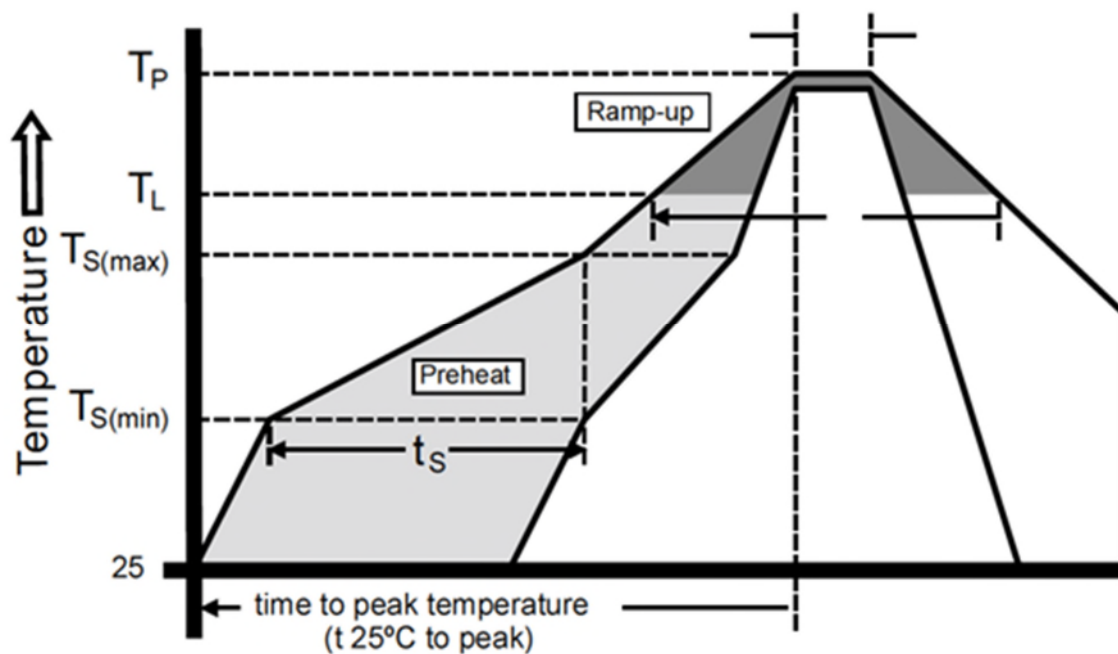
DEVICE CHARACTERISTICS

<i>Maximum Rating</i>			
Parameter	Symbol	Value	Unit
Surge Current—60Hz	I _{AC}	5	A
Lead Soldering Temperature	T _L	260 (10s)	°C
Operating Temperature Range	T _J	-40~85	°C
Storage Temperature Range	T _{STG}	-40~85	°C

<i>Electrical Characteristics (@25 °C)</i>							
Part Number	DC Breakdown	Impulse Breakdown	Impulse Discharge Current	Impulse Life	Insulation Resistance	Insulation Resistance	Co
	100V/s	1KV/us	8/20us	100A @ 10/1000us	50 VDC	100 VDC	@ 1MHz
	(Volt)	(Volt)	(A)	(Times)	(GΩ)	(GΩ)	(pF)
NLC5050-300	300 ± 20%	700	5000	10	-	1	1.0

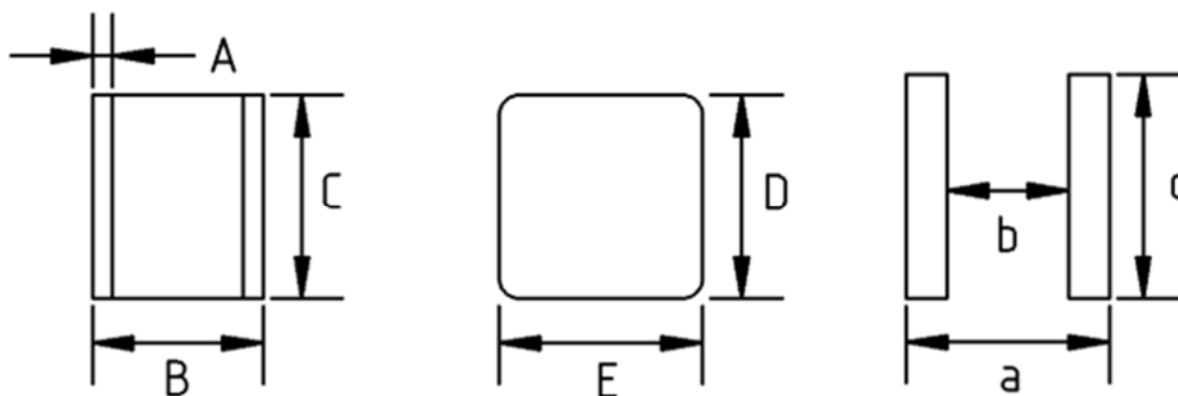
RATING CURVES

Reflow Condition		
Pre-Heat	Temperature Min T_{SMin}	150°C
	Temperature Max T_{SMax}	200°C
	Time Min to Max t_s	60 ~ 180 sec
Average Ramp up Rate to Peak T_L		3°C/sec
T_{SMax} to T_L Ramp up Rate		5°C/sec
Reflow	Temperature T_L	217°C
	Time t_L	60 ~ 150 sec
Peak Temperature T_P		260°C
Time within 5°C of T_P		10 ~ 30 sec
Ramp Down Rate		6°C/sec
Time 25°C to T_P		8 min
Do Not Exceed		260°C



DEVICE OUTLINE

<i>Outline Dimension</i>				
Symbol	Millimeters		Inches	
	Min	Max	Min	Max
A	0.4	0.6	0.016	0.024
B	3.9	4.5	0.154	0.177
C	4.8	5.2	0.189	0.205
D	4.8	5.2	0.189	0.205
E	4.8	5.2	0.189	0.205
a	5.0		0.197	
b	3.0		0.118	
c	5.5		0.217	



<i>Revision History</i>	<i>Description</i>
v2.0	Re-organize datasheet layout