



| | |
|-----------|----------------------|
| Spec. No. | PS-DT-S56320/S56321G |
| Rev. | A |

PRODUCT SPECIFICATION

Model No:CST-S56320G/S56321G

| Descriptions: |
|--|
| <ul style="list-style-type: none"> ■ 0.56 Inch Triad Digit SMD Display ■ Emitting Color : Yellow Green |



| CUSTOMER APPROVED SIGNATURES | APPROVED BY | CHECKED BY | PREPARED BY |
|---------------------------------|-------------|------------|-------------|
| | | | |

CHINA SEMICONDUCTOR CORPORATION
Address:2FL. NO.909,Chung-Cheng Road,
Chung-Ho City Taipei Hsien,Taiwan.

Tel:886-2-2223-9696
Fax:886-2-2223-9377

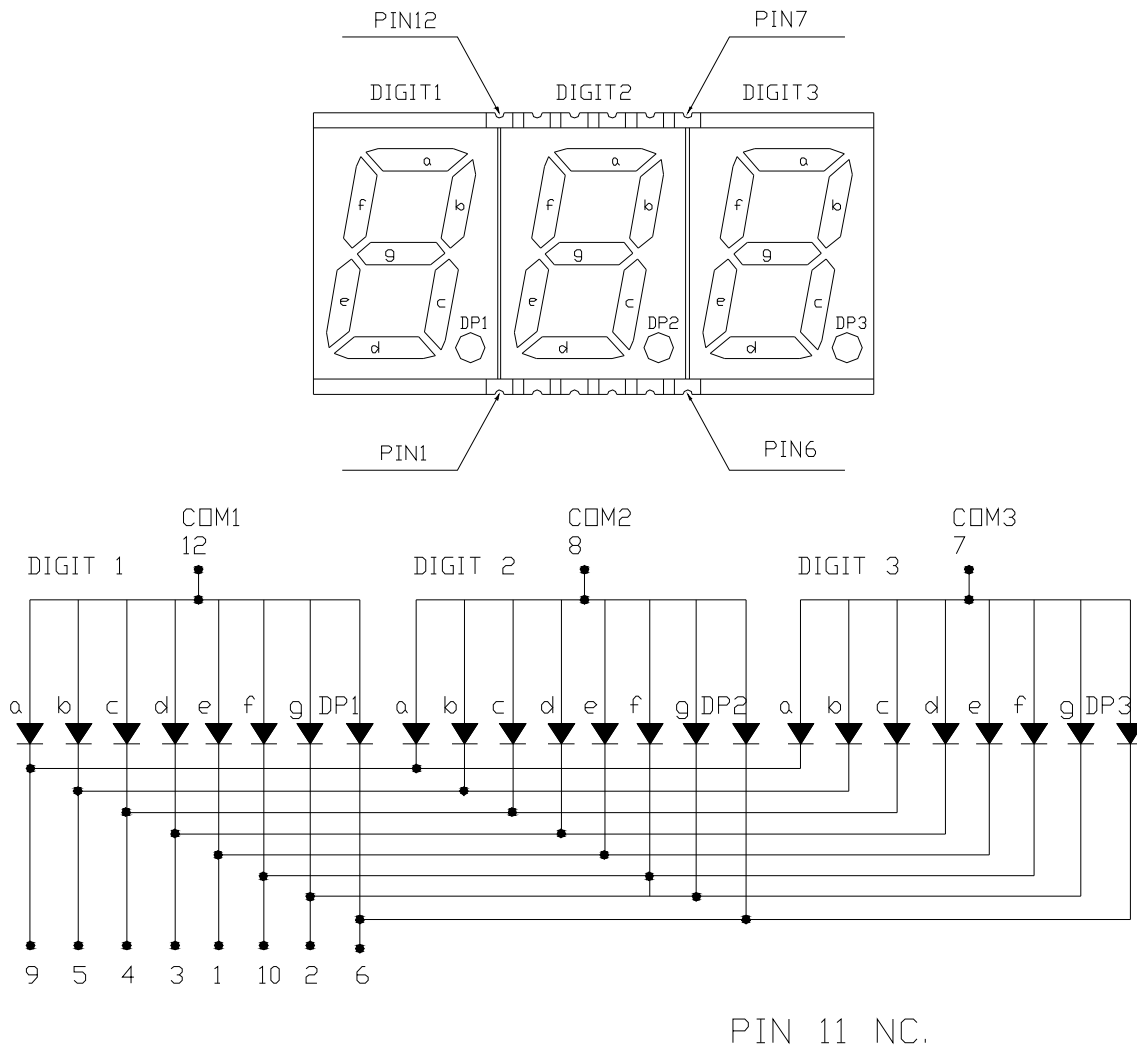
OPTO PLUS TECHNOLOGIES CO.,LTD
Address:696 Shun jiang Rd.,Ji Shan St.Shaoxing,
ZheJiang,China

Tel:86-0575-88623888
Fax:86-0575-88623112



Model No : CST-S56320/S56321G

Internal Circuit Diagrams -



CST-S56320 Common Anode.
(CST-S56321 Common Cathode.)



Model No : CST-S56320/S56321G

■ Absolute Maximum Rating -

(Ta=25°C)

| Parameter | Symbol | Rating | Unit |
|---|------------------|------------|-------|
| Power Dissipation Per Dice | P _{AD} | 70 | mW |
| Continuous Forward Current Per Dice | I _{AF} | 25 | mA |
| Peak Current Per Dice(duty cycle 1/10,1KHz) | I _{PF} | 90 | mA |
| Derating Linear From 25°C Per Dice | - | 0.33 | mA/°C |
| Reverse Voltage Per Dice | V _R | 5 | V |
| Operating Temp. | T _{opr} | -40 ~ +105 | °C |
| Storage Temp. | T _{stg} | -40 ~ +105 | °C |

Note:Solder temperature 1/16 inch below seating plane for 3 seconds at 260°C

■ Electro-optical Characteristics -

(Ta=25°C)

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Condition |
|-----------------------------------|------------------|------|------|------|------|----------------------|
| Forward Voltage Per Segment | V _F | - | 2.1 | 2.8 | V | I _F =20mA |
| Luminous Intensity Per Segment | I _v | 2.5 | 6 | - | mcd | I _F =10mA |
| Peak Emission Wavelength | λ _P | - | 570 | - | nm | I _F =20mA |
| Spectrum Radiation Bandwidth | Δλ | - | 30 | - | nm | I _F =20mA |
| Reverse Current | I _R | - | - | 100 | μA | V _R =5V |
| Luminous Intensity Matching Ratio | I _{V-m} | - | - | 2:1 | - | I _F =10mA |



Model No : CST-S56320/S56321G

Typical Electrical / Optical Characteristics Curves -

(Ta = 25°C Unless Otherwise Noted)

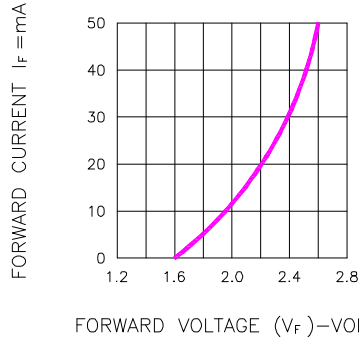


Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE

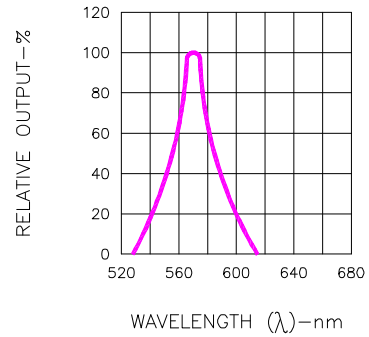


Fig.2 SPECTRAL RESPONSE

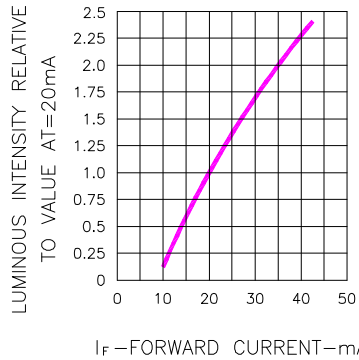


Fig.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

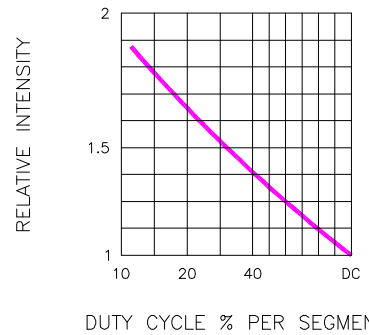


Fig.5 LUMINOUS INTENSITY VS. DUTY CYCLE

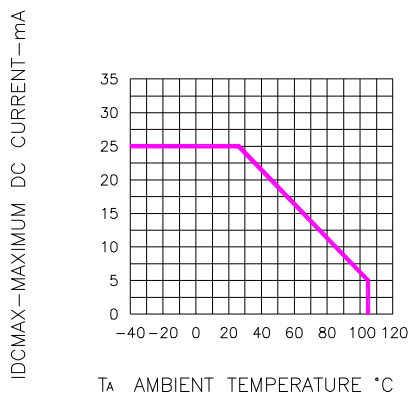


Fig.4 MAXIMUM ALLOWABLE DC CURRENT PER SEGMENT VS. A FUNCTION OF AMBIENT TEMPERATURE

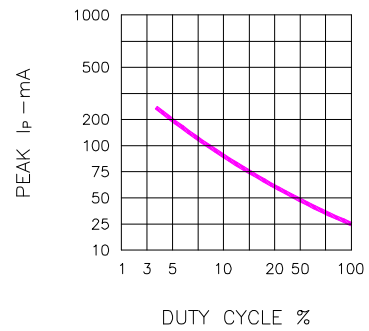


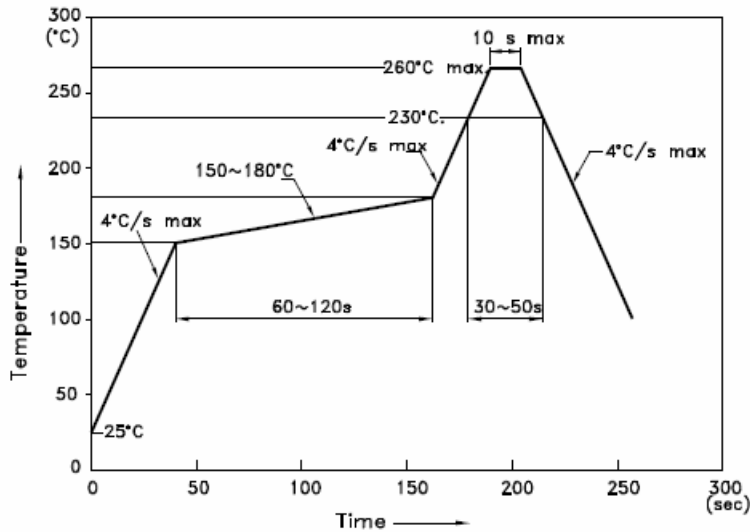
Fig.6 MAX PEAK CURRENT VS. DUTY CYCLE % (REFRESH RATE f=1 KHz)



Model No : CST-S56320/S56321G

SMT REFLOW SOLDERING INSTRUCTIONS

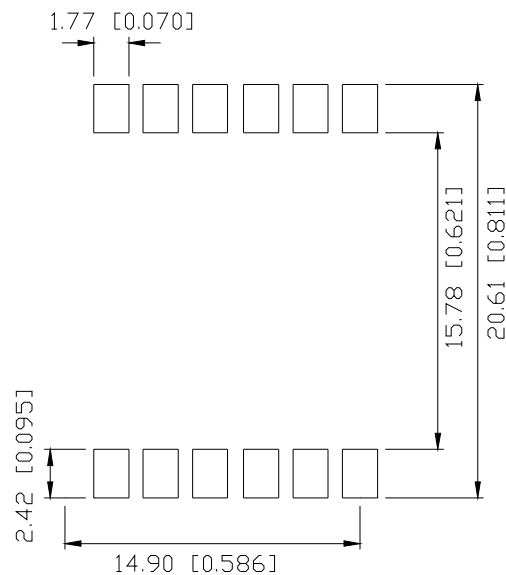
IR Reflow Temperature / Time :



NOTES:

1. We recommend the reflow temperature 245°C(+/-5°C). The maximum soldering temperature should be limited to 260°C.
2. Don't cause stress to the epoxy resin while it is exposed to high temperature.
3. Number of reflow process shall be 2 times or less.

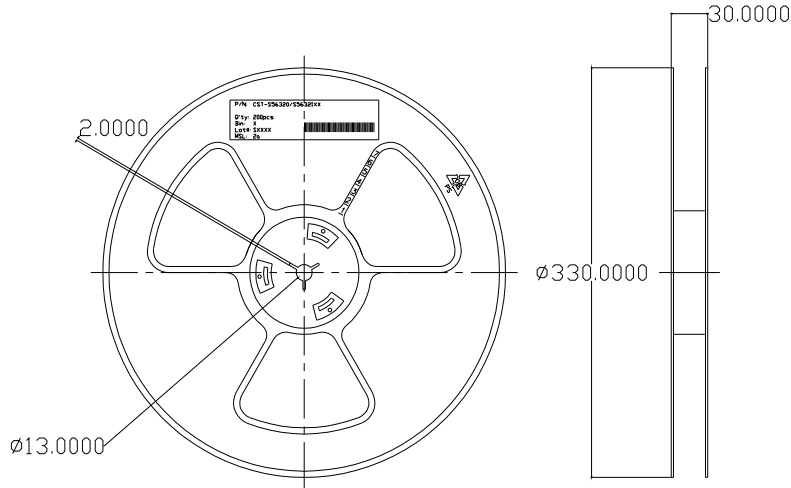
Soldering Pad Size



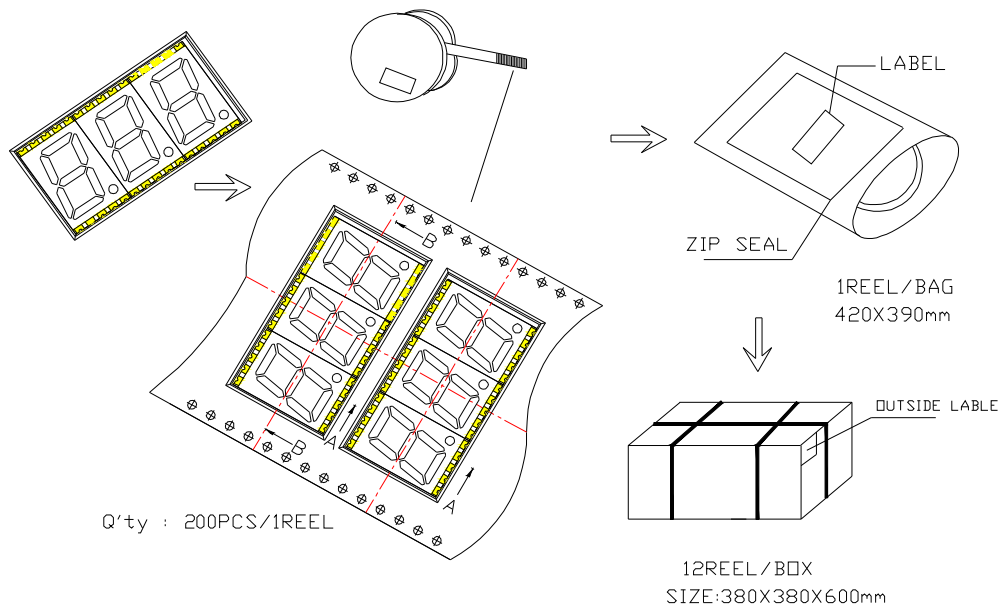


Model No : CST-S56320/S56321G

REEL DIMENSIONS



PACKING & LABEL SPECIFICATIONS



Note: The specifications are subject to change without notice. Please contact us for updated information.