

DESCRIPTION

The SELC08CI is an ultra low capacitance transient voltage suppressor array, designed to protect applications such as portable electronics and SMART phones. This series is rated at 350 Watts for an 8/20 μ s waveshape.

The SELC08CI meets IEC 61000-4-2 (ESD) and IEC 61000-4-4 (EFT) requirements. At higher operating frequencies or faster edge rates, insertion loss and signal integrity are a major concern. The SELC08CI offers an ultra low capacitance and low leakage current in a miniature SOD-323 package.

FEATURES

- >350 Watts Peak Pulse Power per Line (tp=8/20 μ s)
- >Protects One Signal Line or I/O Port
- >Low clamping voltage
- >Low leakage current

APPLICATIONS

- >Ethernet - 10/100/1000 Base T
- >Cellular Phones
- >I²C Bus Protection
- >Parallel & Serial Port Protection
- >Personal Digital Assistant (PDA)
- >Microcontroller Input Protection
- >WAN/LAN Equipment

IEC COMPATIBILITY

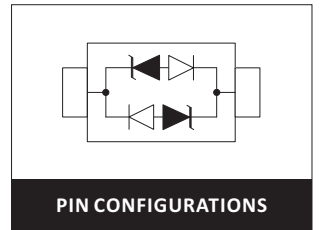
- >IEC61000-4-2 (ESD) \pm 30kV (air), \pm 30kV (contact)
- >IEC61000-4-4 (EFT) 40A (5/50ns)

MAXIMUM RATINGS @ 25°C UNLESS OTHERWISE SPECIFIED

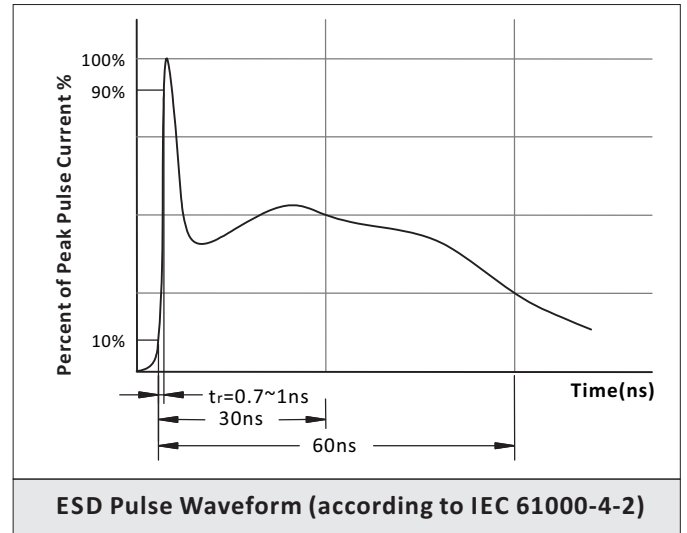
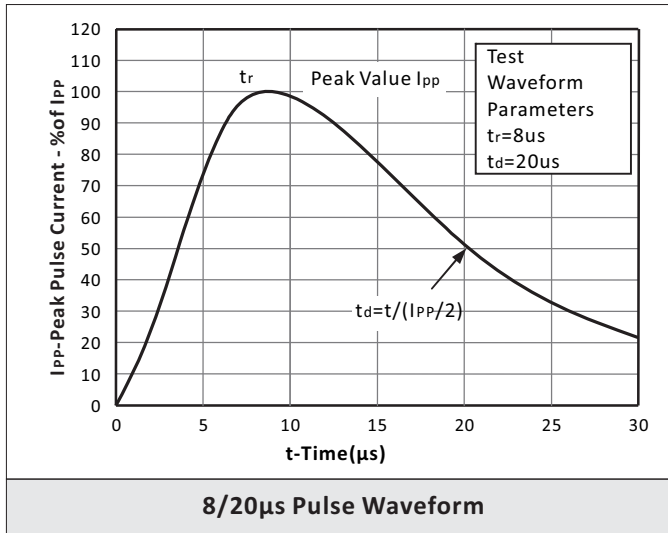
| PARAMETER | SYMBOL | VALUE | UNIT |
|---|--------|---------|-------|
| Peak Pulse Power (tp=8/20 μ s waveform) | PPP | 350 | Watts |
| Operating Temperature Range | TJ | -55~125 | °C |
| Storage Temperature Range | TSTG | -55~150 | °C |

ELECTRICAL CHARACTERISTICS PER LINE @ 25°C UNLESS OTHERWISE SPECIFIED

| PART NUMBER | DEVICE MARKING | V _{RWM} | V _{BR} | I _T | V _C @1A | V _C | | I _R | C _T |
|-------------|----------------|------------------|-----------------|----------------|--------------------|----------------|------|-----------------|----------------|
| | | (V) Max. | (V) Min. | (mA) | Max. | Max. | @A | (μ A) Max. | (pF) Typ. |
| SELC08CI | BC | 8.0 | 8.5 | 1 | 14 | 20.0 | 17.0 | 0.1 | 1.0 |

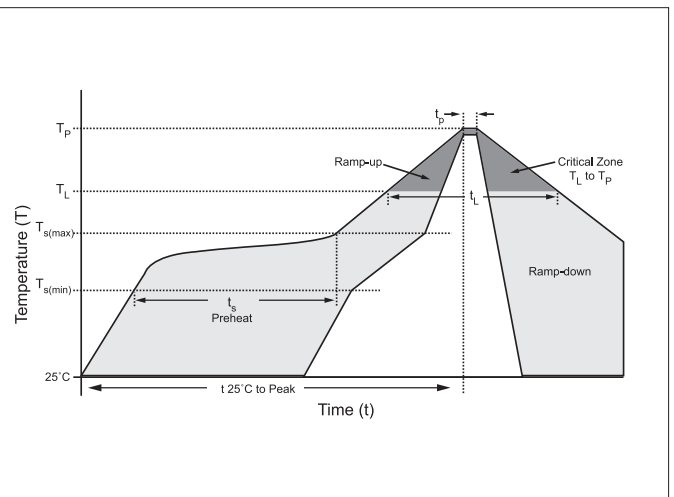


CHARACTERISTIC CURVES



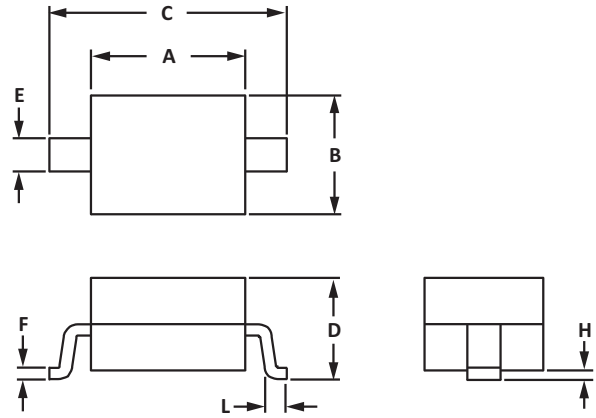
REFLOW PROFILE

| Reflow Condition | | Lead-free assembly |
|---|-----------------------------|--------------------|
| Pre Heat | Temperature Min (Ts(min)) | 150°C |
| | Temperature Max (Ts(max)) | 200°C |
| | Time (min to max) (ts) | 60 – 180 secs |
| Average ramp up rate (Liquidus Temp (TL) to peak) | | 3°C/second max |
| Ts(max)to TL - Ramp-up Rate | | 3°C/second max |
| Reflow | Temperature (TL) (Liquidus) | 217°C |
| | Time (min to max) (tl) | 60 – 150 seconds |
| Peak Temperature (Tp) | | 260°C |
| Time within 5°C of actual peak Temperature (tp) | | 20 – 40 seconds |
| Ramp-down Rate | | 6°C/second max |
| Time 25°C to peak Temperature (Tp) | | 8 minutes Max. |
| Do not exceed | | 260°C |



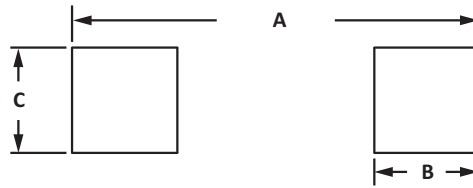
SOD-323 PACKAGE INFORMATION

| OUTLINE DIMENSIONS | | | | |
|--------------------|-------------|------|--------|-------|
| DIM | MILLIMETERS | | INCHES | |
| | MIN | MAX | MIN | MAX |
| A | 1.60 | 1.90 | 0.063 | 0.075 |
| B | 1.15 | 1.45 | 0.045 | 0.057 |
| C | 2.39 | 2.70 | 0.094 | 0.106 |
| D | 0.80 | 1.10 | 0.031 | 0.043 |
| E | 0.25 | 0.40 | 0.010 | 0.016 |
| F | 0.10 | 0.20 | 0.004 | 0.008 |
| H | - | 0.10 | - | 0.004 |
| L | 0.20 | - | 0.008 | - |



RECOMMENDED PAD LAYOUT DIMENSION

| PAD LAYOUT DIMENSIONS | | | | |
|-----------------------|-------------|------|--------|-------|
| DIM | MILLIMETERS | | INCHES | |
| | MIN | MAX | MIN | MAX |
| A | 2.87 | 3.12 | 0.113 | 0.123 |
| B | 0.66 | 0.91 | 0.026 | 0.036 |
| C | 0.66 | 0.91 | 0.026 | 0.036 |



ORDERING INFORMATION

| Part Number | Component Package | QTY/Reel | Reel Size |
|-------------|-------------------|----------|-----------|
| SELC08CI | SOD-323 | 3000PCS | 7" |



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