

FEATURES

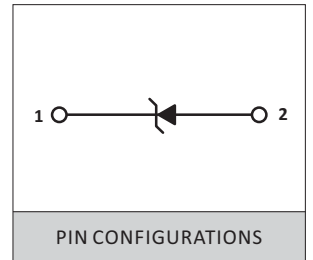
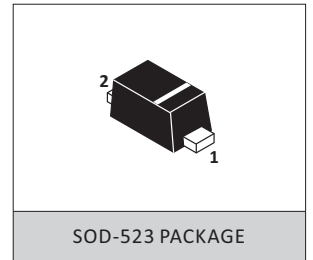
- > 200 Watts Peak Pulse Power per Line (tp=8/20μs)
- > Protects one Unidirectional I/O line
- > Low clamping voltage
- > Working voltages : 3.3V
- > Low leakage current

APPLICATIONS

- > Cell Phone Handsets and Accessories
- > Microprocessor based equipment
- > Industrial Controls
- > Notebooks, Desktops, and Servers
- > Instrumentation
- > Set-Top Box
- > Display Ports

IEC COMPATIBILITY

- > IEC61000-4-2 (ESD) ±15kV (air), ±8kV (contact)
- > IEC61000-4-4 (EFT) 40A (5/50ns)



MAXIMUM RATINGS AND CHARACTERISTICS Ratings at 25°C ambient temperature unless otherwise specified.

| RATING | SYMBOL | VALUE | UNITS |
|--|------------------|----------|-------|
| Peak Pulse Power (tp=8/20μs waveform). | PPPM | 200 | Watts |
| Operating Temperature Range. | T _J | -55~+125 | °C |
| Storage Temperature Range. | T _{STG} | -55~+150 | °C |

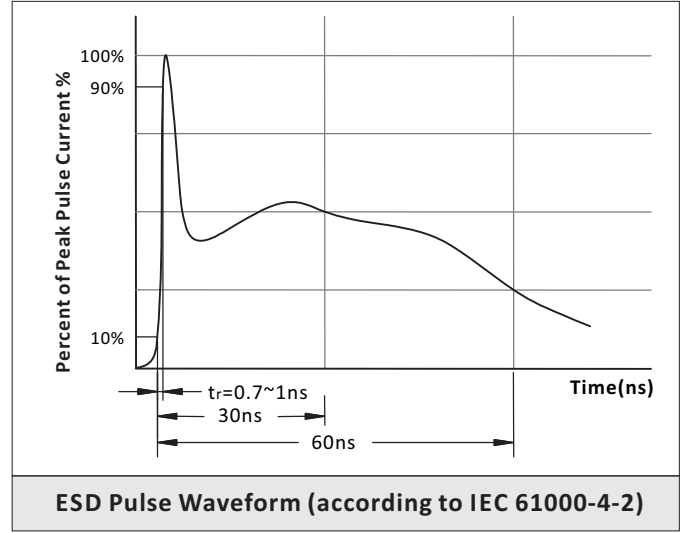
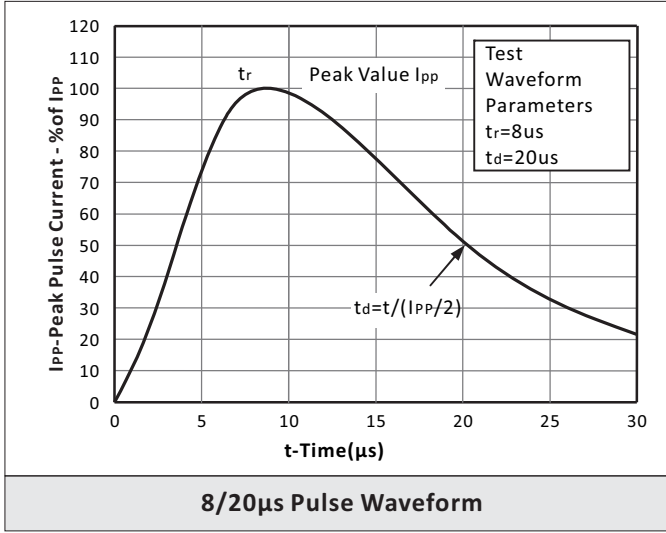
Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

ELECTRICAL CHARACTERISTICS

| PART NUMBER | DEVICE MARKING CODE | V _{RWM} | V _B | I _T | V _C @5A | V _C | | I _R | C _T |
|-------------|---------------------|------------------|----------------|----------------|--------------------|----------------|----|----------------|----------------|
| | | (V) Max. | (V) Min. | (mA) | Max. | Max. | @A | (μA) Max. | (pF) Typ. |
| SE5D20U3.3A | ZE | 3.3 | 5.0 | 1 | 9.4 | 14 | 11 | 1.0 | 105 |

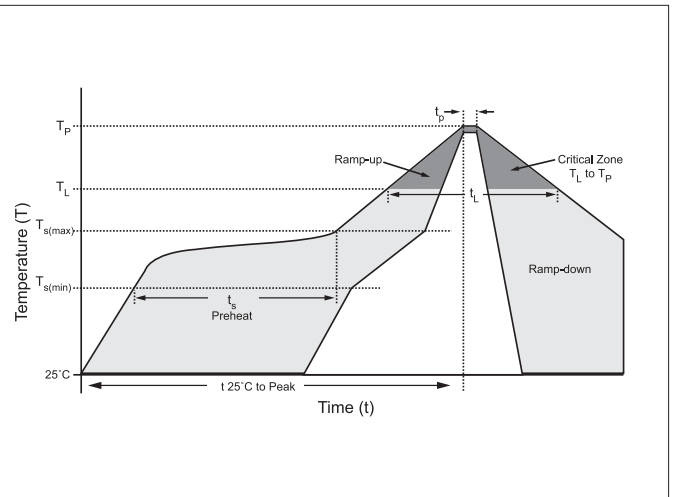


CHARACTERISTIC CURVES

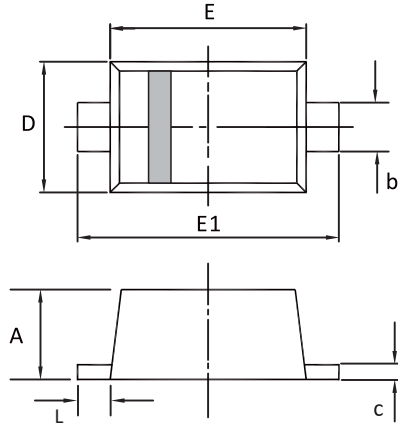


REFLOW PROFILE

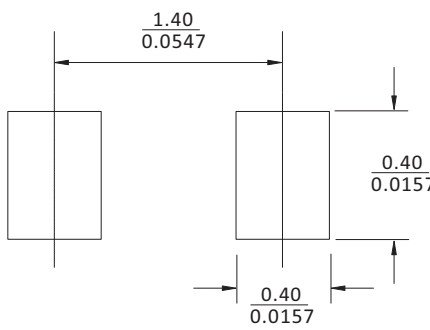
| Reflow Condition | | Lead-free assembly |
|---|-----------------------------|--------------------|
| Pre Heat | Temperature Min (Ts(min)) | 150°C |
| | Temperature Max (Ts(max)) | 200°C |
| | Time (min to max) (ts) | 60 – 180 secs |
| Average ramp up rate (Liquidus Temp (TL) to peak) | | 3°C/second 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 |



PRODUCT DIMENSIONS

|  | Symbol | Millimeters | | Inches | |
|---|--------|-------------|------|--------|--------|
| | | Min. | Max. | Min. | Max. |
| | A | 0.50 | 0.70 | 0.020 | 0.028 |
| | b | 0.25 | 0.35 | 0.010 | 0.014 |
| | C | 0.07 | 0.20 | 0.0028 | 0.0079 |
| | D | 0.70 | 0.90 | 0.028 | 0.035 |
| | E | 1.10 | 1.30 | 0.043 | 0.051 |
| | E1 | 1.50 | 1.70 | 0.059 | 0.067 |
| | L | 0.15 | 0.25 | 0.006 | 0.010 |

RECOMMENDED PAD LAYOUT DIMENSIONS

| | |
|--|--|
|  | <p>Notes: This recommended land pattern is for reference purposes only. Please consult your manufacturing group to ensure your PCB design guidelines are met.</p> |
|--|--|

ORDERING INFORMATION

| Part Number | Component Package | QTY/Reel | Reel Size |
|-------------|-------------------|----------|-----------|
| SE5D20U3.3A | SOD-523 | 3000PCS | 7" |



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