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MECHANICAL DATA

- Case material: "Green" molding compound UL flammability classification 94V-0 (No Br. Sb, Cl)
- Component in accordance to RoHs 2011/65/EU

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

| PARAMETER | SYMBOL | VALUE | | | UNIT | |
|--------------------------------------|------------------|------------------------------------|------|------|------|------|
| Peak pulse power (tp = 8/20 us) | P _{PM} | 30 | | | W | |
| Peak pulse current (tp = 8/20 us) | I _{pp} | 2 | | | Α | |
| Operating junction temperature range | TJ | -55 to +105 | | | °C | |
| Storage temperature range | T _{STG} | -55 to +150 | | | °C | |
| Soldering Temperature, t max =10s | TL | 260 | | | | °C |
| ELECTRICAL CHARACTERISTICS | | | | | | |
| PARAMETER | SYMBOL | CONDITIONS | MIN. | TYP. | MAX | UNIT |
| Reverse stand-off voltage | V _{DRM} | | | | 5.0 | V |
| Reverse leakage current | I _{RM} | $V_{DRM} = 5 V$ | | | 100 | nA |
| Breakdown voltage | V _{BR} | I _R = 1 mA | 5.5 | | 9.5 | V |
| Junction Capacitance | CJ | $V_R = 0V$, f =1MH _Z | | 3.0 | 3.5 | pF |
| Clamping voltage | | I _{PP} = 1A, tp = 8/20 uS | | | 12 | V |
| | V _{CL} | I _{PP} = 2A, tp = 8/20 uS | | 1 | | V |

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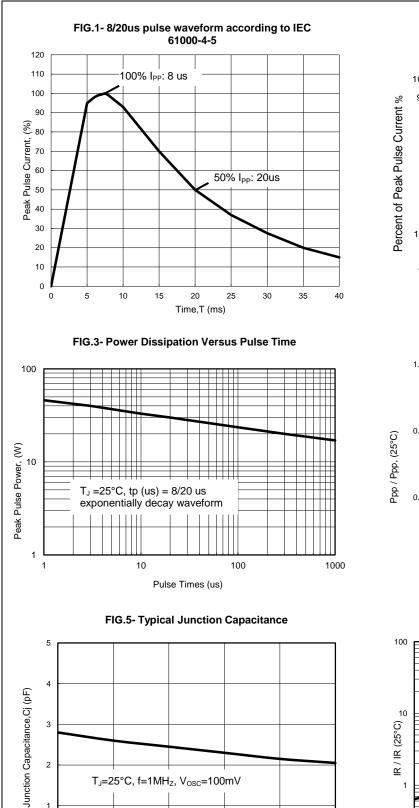
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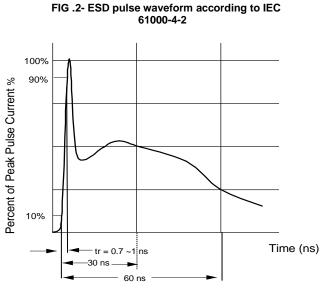
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Cathode

Cathode

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FIG.4- Peak Pulse Power Versus TJ

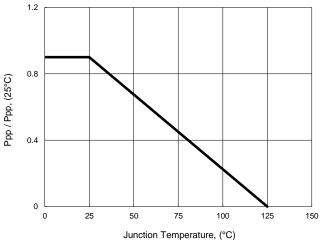
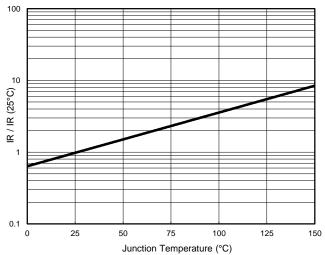


FIG.6- Reverse Leakage Current Versus TJ



3

2

1

0

0

1

T_=25°C, f=1MHz, Vosc=100mV

2

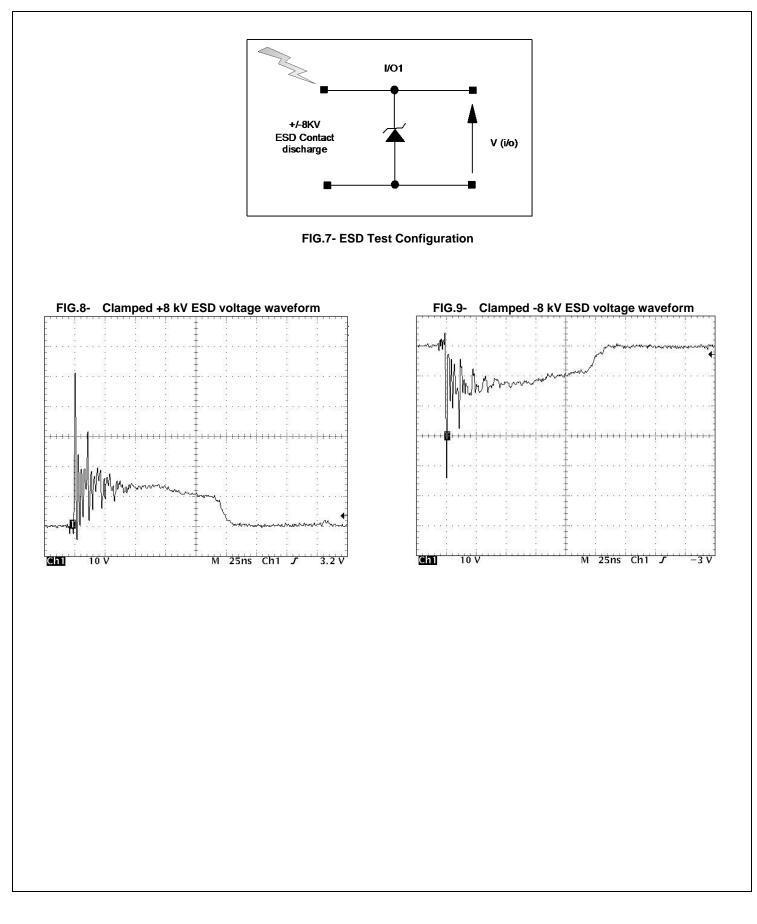
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Reverse Breakdown Voltage, VBR (V)

4

5

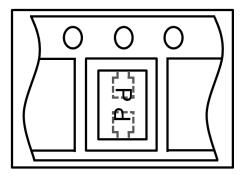
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LITEON



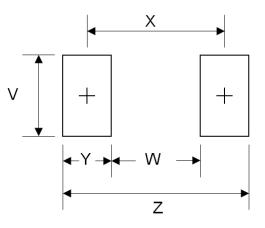
Marking & Orientation



Packaging Information

| DEVICE | Q'TY/REEL | REEL DIA. | Q'TY/BOX | Q'TY/CARTON |
|---------------|-----------|-----------|----------|-------------|
| | (PCS) | (INCH) | (PCS) | (PCS) |
| L03ESDL5V0CE2 | 10K | 7 | 150K | 300K |

SOD-882 Soldering Pad Layout



| DIM. | MILLIMETERS | INCHES |
|------|-------------|--------|
| Z | 1.30 | 0.051 |
| Х | 0.75 | 0.029 |
| W | 0.20 | 0.007 |
| Y | 0.55 | 0.021 |
| V | 0.80 | 0.031 |



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