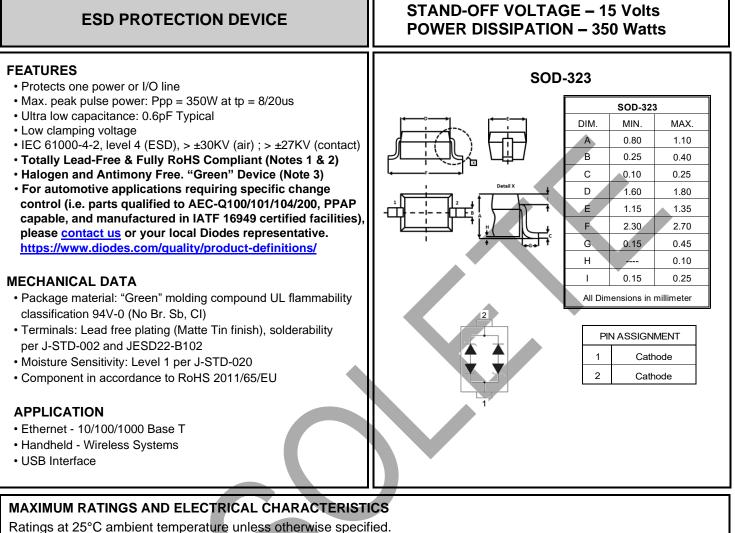




# LITE-ON SEMICONDUCTOR

# L35L15VCB2



### ABSOLUTE RATINGS

| PARAMETER                            | SYMBOL      | VALUE       | UNIT |  |  |  |
|--------------------------------------|-------------|-------------|------|--|--|--|
| Peak pulse power (tp = 8/20us)       | Ррк         | 350         | W    |  |  |  |
| Peak pulse current (tp = 8/20us)     | <b>I</b> PP | 9.5         | Α    |  |  |  |
| Operating junction temperature range | TJ          | -55 to +125 | °C   |  |  |  |
| Storage temperature range            | Tstg        | -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 <sub>RWM</sub> |                                     |      |     | 15   | V    |
| Breakdown voltage         | VBR              | I⊤ = 1mA                            | 16.7 |     |      | V    |
| Reverse leakage current   | I <sub>RM</sub>  | V <sub>DRM</sub> = 15V              |      |     | 1.0  | uA   |
| Junction capacitance      | CJ               | $V_R = 0V, f = 1MHz$                |      | 0.6 | 0.7  | pF   |
| Clamping voltage          | Vc               | I <sub>PP</sub> = 1A, tp = 8/20uS   |      |     | 26.5 | V    |
|                           |                  | I <sub>PP</sub> = 9.5A, tp = 8/20uS |      |     | 36.8 | v    |

Notes:

<sup>1.</sup> No purposely added lead. Fully EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant.

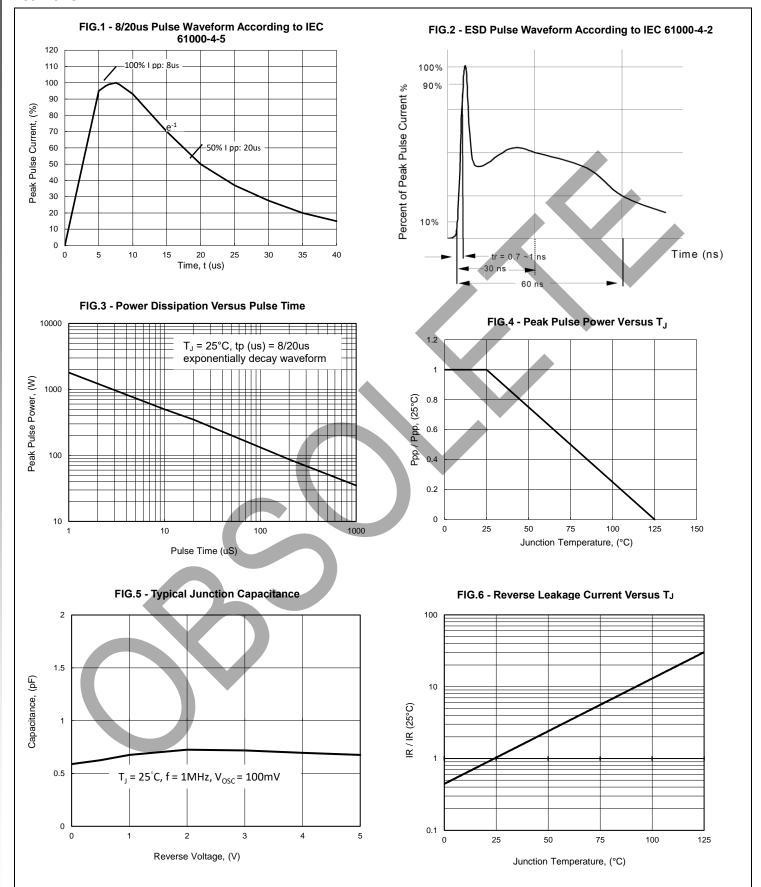
<sup>2.</sup> See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.

<sup>3.</sup> Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.



#### RATING AND CHARACTERISTIC CURVES L35L15VCB2

## LITE-ON SEMICONDUCTOR





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## **Ordering Information:**

| Part Number | Package | Packing |         |  |
|-------------|---------|---------|---------|--|
|             |         | Qty.    | Carrier |  |
| L35L15VCB2  | SOD-323 | 3000pcs | Reel    |  |

## Marking Information:



COO = Product Type Marking Code

# Packaging Information:

| Device     | Qty./Reel | Reel Dia. | Qty./Box | Qty./Carton |
|------------|-----------|-----------|----------|-------------|
|            | (Pcs)     | (Inch)    | (Pcs)    | (Pcs)       |
| L35L15VCB2 | 3000      | 7         | 45K      | 90K         |

# Suggested Pad Layout:

| Dimensions | Value (in mm) |
|------------|---------------|
| Z          | 3.05          |
| Х          | 2.15          |
| w          | 1.25          |
| Y          | 0.90          |
| v          | 0.70          |
|            |               |



#### LITE-ON SEMICONDUCTOR

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