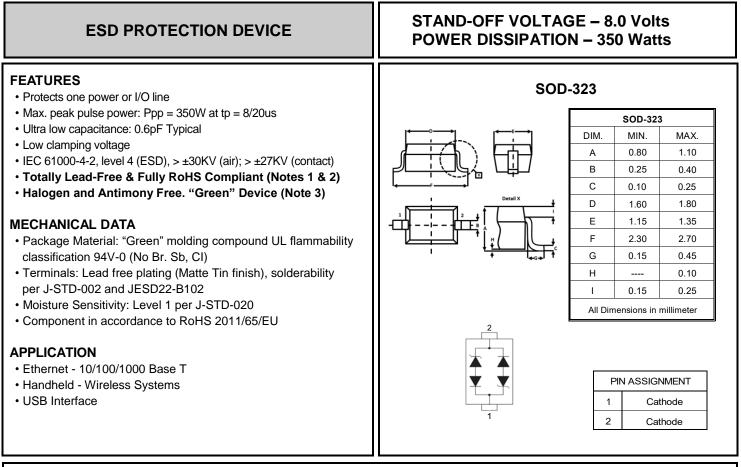


A Product Line of Diodes Incorporated

LITE-ON SEMICONDUCTOR

L35L8V0CB2



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

ABSOLUTE RATINGS

| PARAMETER | SYMBOL | VALUE | UNIT |
|--------------------------------------|------------------|-------------|------|
| Peak pulse power (tp = 8/20us) | Ррк | 350 | W |
| Peak pulse current (tp = 8/20us) | IPP | 14 | А |
| Operating junction temperature range | TJ | -55 to +125 | °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 _{RWM} | | | | 8 | V |
| Breakdown voltage | VBR | I⊤ = 1mA | 8.5 | | | V |
| Reverse leakage current | I _{RM} | $V_{DRM} = 8V$ | | | 2.0 | uA |
| Junction capacitance | CJ | $V_R = 0V, f = 1MHz$ | | 0.6 | 0.7 | pF |
| Clamping voltage | Vc | I _{PP} = 1A, tp = 8/20uS | | | 13.4 | V |
| | VC | I _{PP} = 14A, tp = 8/20uS | | | 25 | v |

Notes:

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

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.
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 L35L8V0CB2

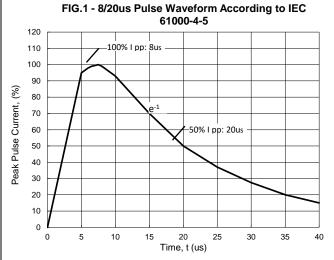
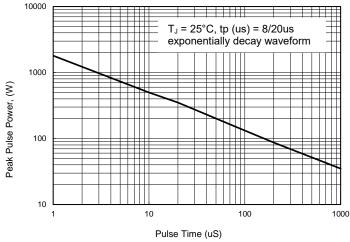
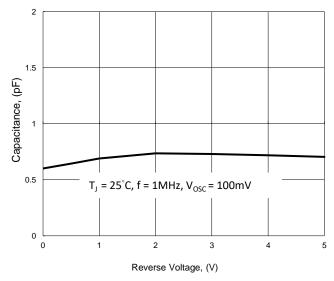


FIG.3 - Power Dissipation Versus Pulse Time

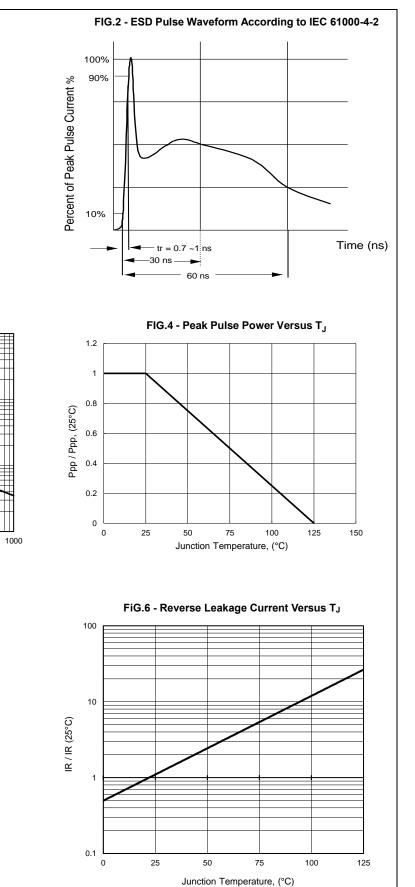






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LITE-ON SEMICONDUCTOR





Ordering Information:

| Part Number | art Number Backage | Packing | |
|-------------|--------------------|---------|---------|
| | Package | Qty. | Carrier |
| L35L8V0CB2 | SOD-323 | 3000pcs | Reel |

Marking Information:

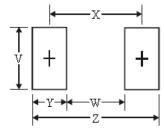


EO3 = Product Type Marking Code

Packaging Information:

| DEVICE | Q'TY/REEL | REEL DIA. | Q'TY/BOX | Q'TY/CARTON |
|------------|-----------|-----------|----------|-------------|
| | (PCS) | (INCH) | (PCS) | (PCS) |
| L35L8V0CB2 | 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 |



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