



A Product Line of Diodes Incorporated

LITE-ON SEMICONDUCTOR

L35L15VCB2

STAND-OFF VOLTAGE – 15 Volts ESD PROTECTION DEVICE **POWER DISSIPATION – 350 Watts FEATURES SOD-323** • Protects one power or I/O line • Max. peak pulse power: Ppp = 350W at tp = 8/20us SOD-323 • Ultra low capacitance: 0.6pF Typical MIN. MAX. DIM. · Low clamping voltage A 0.80 1.10 0.25 • IEC 61000-4-2, level 4 (ESD), > ±30KV (air) ; > ±27KV (contact) В 0.40 С 0.10 0.25 Totally Lead-Free & Fully RoHS Compliant (Notes 1 & 2) Halogen and Antimony Free. "Green" Device (Note 3) D 1.60 1.80 Е 1.15 1.35 F 2.30 2.70 **MECHANICAL DATA** · Package material: "Green" molding compound UL flammability G 0.15 0.45 0.10 classification 94V-0 (No Br. Sb, Cl) н ----Т 0.15 0.25 · Terminals: Lead free plating (Matte Tin finish), solderability per J-STD-002 and JESD22-B102 All Dimensions in millimeter Moisture Sensitivity: Level 1 per J-STD-020 Component in accordance to RoHS 2011/65/EU PIN ASSIGNMENT 1 Cathode APPLICATION 2 Cathode • Ethernet - 10/100/1000 Base T • Handheld - Wireless Systems USB Interface

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)	Рк	350	W
Peak pulse current (tp = 8/20us)	I _{PP}	9.5	А
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	VRWM				15	V
Breakdown voltage	VBR	I _T = 1mA	16.7			V
Reverse leakage current	I _{RM}	$V_{DRM} = 15V$			1.0	uA
Junction capacitance	CJ	$V_R = 0V, f = 1MHz$		0.6	0.7	pF
Clamping voltage	Vc	I _{PP} = 1A, tp = 8/20uS			26.5	V
Clamping voltage	VC	I _{PP} = 9.5A, tp = 8/20uS			36.8	v

Notes:

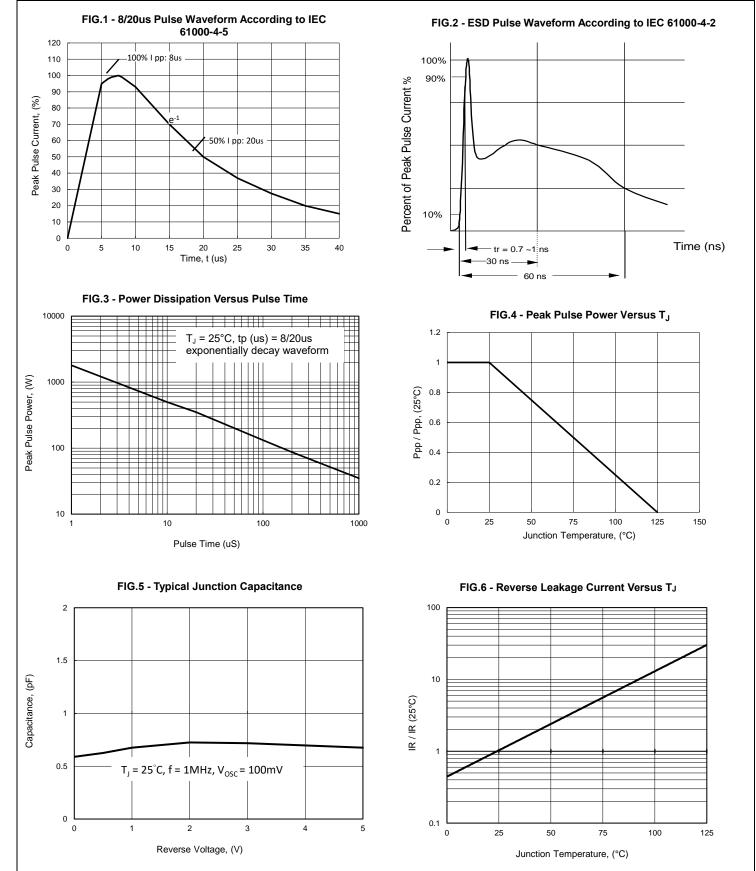
1. No purposely added lead. Fully EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant.

2. 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.

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

RĂŤIŇĠ ĂŇĎ CHARĂCTERISTIC CURVES L35L15VCB2

LITE-ON SEMICONDUCTOR





Ordering Information:

Part Number	Packago	Pac	ng	
Fait Nulliber	Package	Qty.	Carrier	
L35L15VCB2	SOD-323	3000pcs	Reel	

Marking Information:

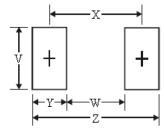


COO = Product Type Marking Code

Packaging Information:

DEVICE	Q'TY/REEL	REEL DIA.	Q'TY/BOX	Q'TY/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



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