

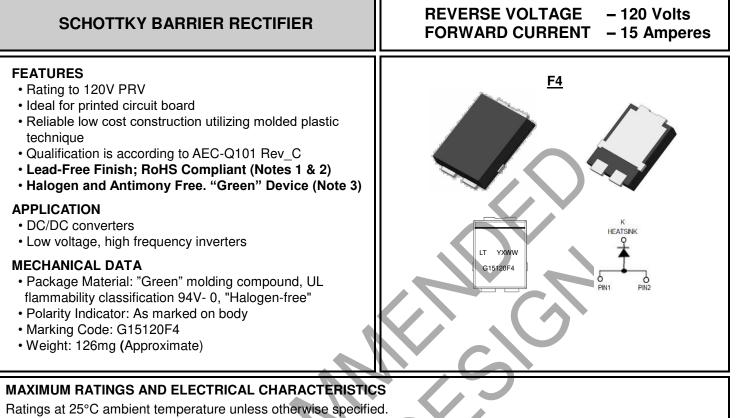
A Product Line of **Diodes Incorporated**

LITE-ON SEMICONDUCTOR

G15120F4

NOT RECOMMENDED FOR NEW DESIGN **USE SDT15150VP5**

- 120 Volts



ABSOLUTE RATINGS

PARAMETER	SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage	V _{RRM}	120	V
Maximum DC blocking voltage	V _{DC}	120	V
Average rectified forward current @Tc = 110°C	IF	15	А
Peak forward surge 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	120	А
Operating and storage temperature range	T _{J,} T _{STG}	-55 to +150	°C

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CONDITION	SYMBOL	МАХ	UNIT
Forward voltage (Note 4)	$I_F = 15A$ $T_J = 25^{\circ}C$ $T_J = 125^{\circ}C$	V _F	0.93 0.88	V
Reverse leakage current	$V_{R} = 120V \qquad \begin{array}{c} T_{J} = 25^{\circ}C \\ T_{J} = 125^{\circ}C \end{array}$	I _R	120 27	uA mA
Typical junction capacitance (N	lote 5)	Cj	550	pF

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	ТҮР	UNIT
Typical thermal resistance (Note 6)	RthJ _A RthJ∟ RthJ _C	20 6 3	°C/W

Notes:

1. EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.

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

4. 300us Pulse width, 2% duty cycle

5. Measured at 1.0MHz and reverse voltage of 4.0V DC.

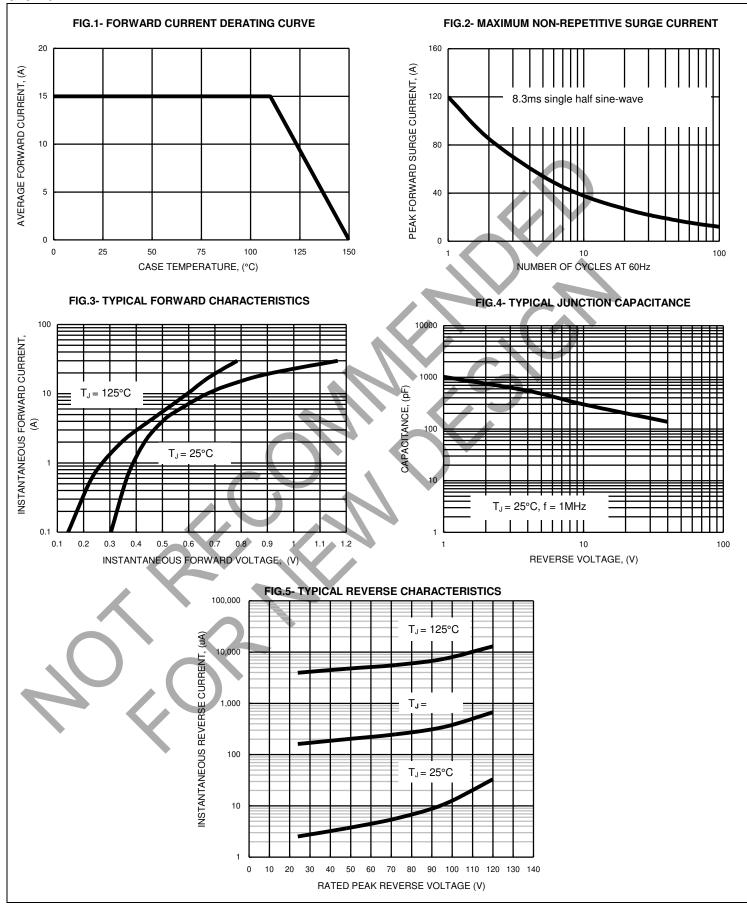
6. Thermal resistance test is performed in accordance with JESD-51.



RATING AND CHARACTERISTIC CURVES G15120F4

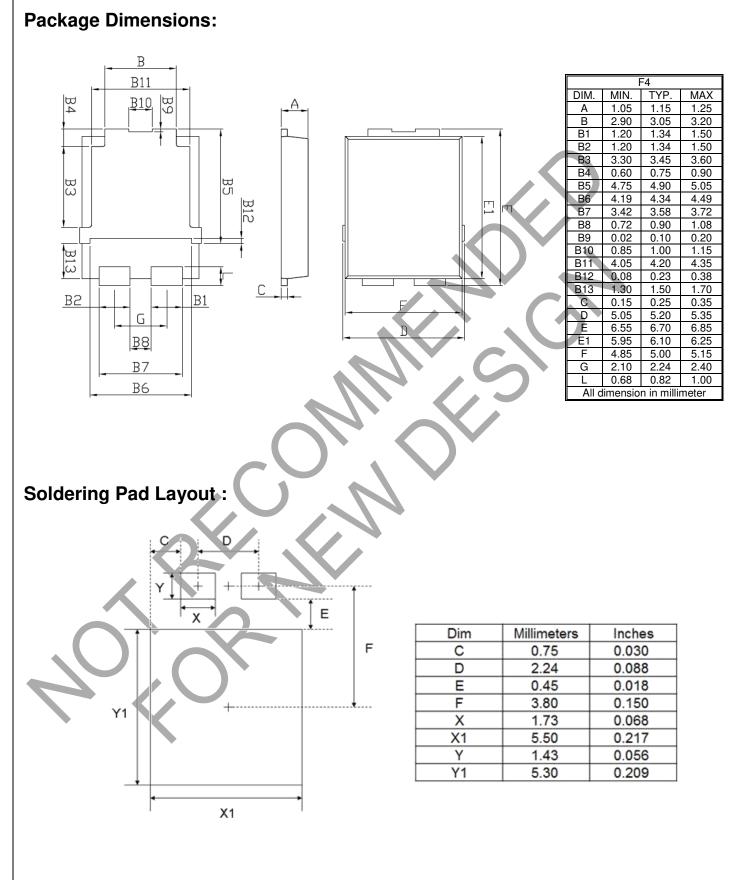
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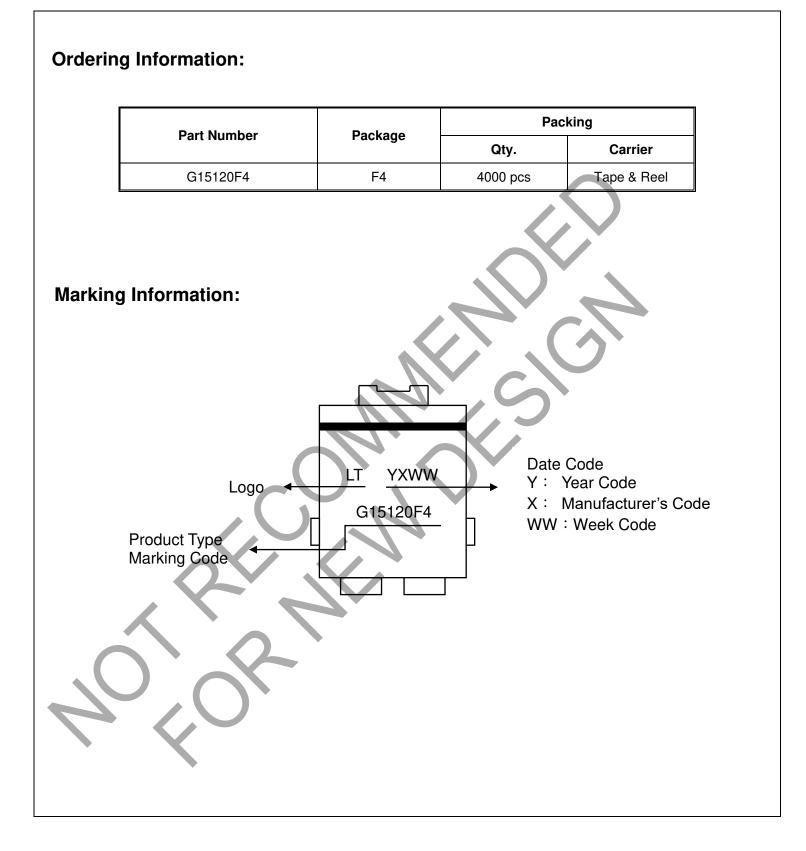




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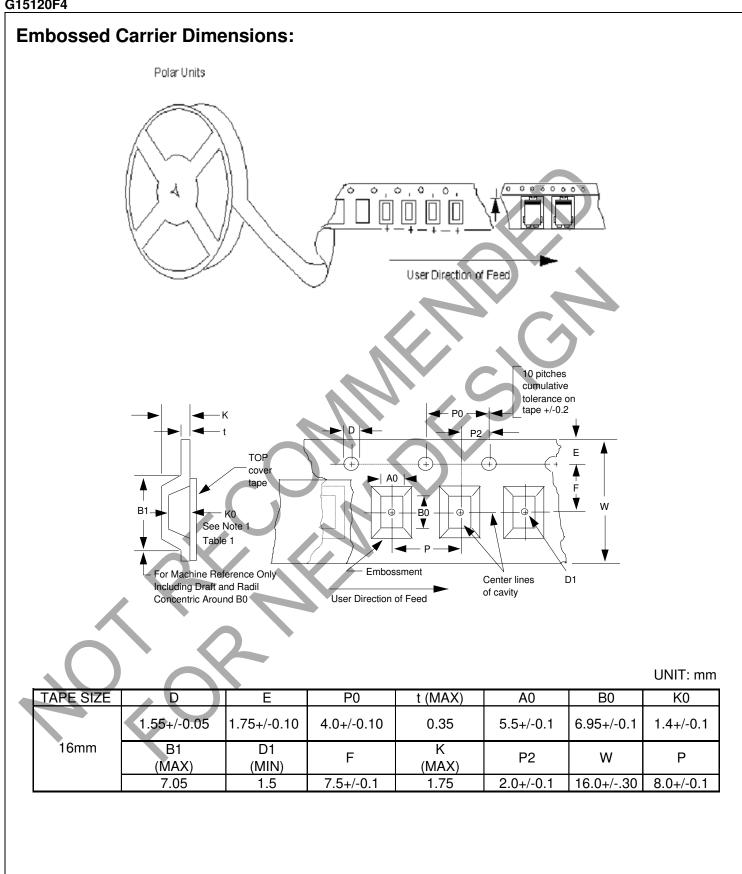






TAPE AND REEL INFORMATION G15120F4

LITE-ON SEMICONDUCTOR





LITE-ON SEMICONDUCTOR

Packaging Information:

DEVICE	Q'TY/REEL (PCS)	REEL DIA. (INCH)	Q'TY/BOX (PCS)	Q'TY/CARTON (PCS)
G15120F4	4000	13	4000	48K



LITE-ON SEMICONDUCTOR

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