



A Product Line of **Diodes Incorporated**

LITE-ON SEMICONDUCTOR G15H150D5

TRENCH SCHOTTKY RECTIFIER				REVERSE V		– 150 Voli – 15 Amp	
FEATURES					PowerDI5		
Super Low Forward Vol			<u> </u>				
Reliable High Temperat							
Softest, fast switching of					K		
 150°C Operation Juncti 		e				~	
Qualified according to A					2		
 Lead-Free Finish; Rol 							
 Halogen and Antimon 	y Free. "Greer	n" Device (Note	3)				
						2 1	
						-	
APPLICATION						_	
Device optimized for ult				Top Viev	V	Bottom View	
to maximize efficiency in	r Power Supply	application					
MECHANICAL DATA							
Package: PowerDI5							
Package Material: "Gre	en" molding co	mpound III flam	nmability	PINK		PIN1 (A)	
classification 94V-0,"Ha					Ì ⊲ -		
Moisture Sensitivity Lev		-020		Case		PIN2 (A)	
Lead free finish, RoHS							
Weight: 0.1 grams (App							
 Marking code: G15H15 	0						
MAXIMUM RATINGS ANI							
MAXIMUM RATINGS ANI Ratings at 25°C ambient te							
MAXIMUM RATINGS ANI Ratings at 25°C ambient to ABSOLUTE RATINGS			e specified.		VALUE		
MAXIMUM RATINGS ANI Ratings at 25°C ambient to ABSOLUTE RATINGS PARA	D ELECTRICA emperature ur METER				VALUE 150		UNIT
MAXIMUM RATINGS ANI Ratings at 25°C ambient to ABSOLUTE RATINGS PARA Maximum repetitive peak reverse	D ELECTRICA emperature ur METER		e specified.				
MAXIMUM RATINGS ANI Ratings at 25°C ambient to ABSOLUTE RATINGS PARA	D ELECTRICA emperature ur METER e voltage		e specified.		150		V
MAXIMUM RATINGS ANI Ratings at 25°C ambient to ABSOLUTE RATINGS PARA Maximum repetitive peak reverse Maximum DC blocking voltage	D ELECTRICA emperature ur METER e voltage ut current	nless otherwise	SYMBOL V _{RRM} V _{DC} I _(AV)		150 150 15		V V A
MAXIMUM RATINGS ANI Ratings at 25°C ambient to ABSOLUTE RATINGS Maximum repetitive peak reverse Maximum DC blocking voltage Maximum Average rectified outpu Peak forward surge current 8.3m superimposed on rated load.	D ELECTRICA emperature ur METER e voltage ut current us single half sine	nless otherwise	SYMBOL V _{RRM} V _{DC}		150 150 15 15		V V
MAXIMUM RATINGS ANI Ratings at 25°C ambient to ABSOLUTE RATINGS Maximum repetitive peak reverse Maximum DC blocking voltage Maximum Average rectified outpr Peak forward surge current 8.3m superimposed on rated load. Peak Repetitive Reverse Surge 0	D ELECTRICA emperature ur METER e voltage ut current is single half sine Current	nless otherwise @T _c =125°C -wave @tp=2us	SYMBOL V _{RRM} V _{DC} I _(AV) I _{FSM} I _{RRM}		150 150 15 150 3		V V A A A
MAXIMUM RATINGS ANI Ratings at 25°C ambient to ABSOLUTE RATINGS Maximum repetitive peak reverse Maximum DC blocking voltage Maximum Average rectified outpi Peak forward surge current 8.3m superimposed on rated load. Peak Repetitive Reverse Surge 0 Operating junction and Storage 7	D ELECTRICA emperature ur METER e voltage ut current is single half sine Current Femperature rang	nless otherwise @T _c =125°C -wave @tp=2us	SYMBOL V _{RRM} V _{DC} I _(AV) I _{FSM}		150 150 15 15		V V A A
MAXIMUM RATINGS ANI Ratings at 25°C ambient to ABSOLUTE RATINGS Maximum repetitive peak reverse Maximum DC blocking voltage Maximum Average rectified outp Peak forward surge current 8.3m superimposed on rated load. Peak Repetitive Reverse Surge (Operating junction and Storage T STATIC ELECTRICAL CH	D ELECTRICA emperature ur METER e voltage ut current is single half sine Current Femperature rang HARACTERIS	nless otherwise @Tc=125°C -wave @tp=2us Je STICS	SYMBOL VRRM VDC I(AV) IFSM IRRM TJ, TSTG		150 150 15 150 3 -55 ~ +150		V V A A A A C
MAXIMUM RATINGS ANI Ratings at 25°C ambient to ABSOLUTE RATINGS Maximum repetitive peak reverse Maximum DC blocking voltage Maximum Average rectified outpi Peak forward surge current 8.3m superimposed on rated load. Peak Repetitive Reverse Surge 0 Operating junction and Storage 1	D ELECTRICA emperature ur METER e voltage ut current is single half sine Current Femperature rang HARACTERIS	aless otherwise	SYMBOL V _{RRM} V _{DC} I _(AV) I _{FSM} I _{RRM}	MIN	150 150 15 150 3 -55 ~ +150 TYP	MAX	V V A A A
MAXIMUM RATINGS ANI Ratings at 25°C ambient to ABSOLUTE RATINGS Maximum repetitive peak reverse Maximum DC blocking voltage Maximum Average rectified outpr Peak forward surge current 8.3m superimposed on rated load. Peak Repetitive Reverse Surge C Operating junction and Storage T STATIC ELECTRICAL CH PARAMETER	D ELECTRICA emperature ur METER e voltage ut current is single half sine Current Femperature rang HARACTERIS	@T _c =125°C -wave @tp=2us ge STICS CONDITIONS T_J=25°C	SYMBOL VRRM VDC I(AV) IFSM IRRM TJ, TSTG	MIN	150 150 15 150 3 -55 ~ +150 TYP 0.84	0.86	V V A A A A C
MAXIMUM RATINGS ANI Ratings at 25°C ambient to ABSOLUTE RATINGS Maximum repetitive peak reverse Maximum DC blocking voltage Maximum Average rectified outpi Peak forward surge current 8.3m superimposed on rated load. Peak Repetitive Reverse Surge C Operating junction and Storage T STATIC ELECTRICAL CH PARAMETER Forward voltage (Note 4)	D ELECTRICA emperature ur METER e voltage ut current is single half sine Current Femperature rang HARACTERIS IF=15A	@T _c =125°C -wave @tp=2us je STICS CONDITIONS T_J=25°C T_J=125°C	e specified. SYMBOL V _{RRM} V _{DC} I(AV) I _{FSM} I _{RRM} T _J , T _{STG}		150 150 15 150 3 -55 ~ +150 TYP 0.84 0.68	0.86 0.75	V V A A °C UNIT V
MAXIMUM RATINGS ANI Ratings at 25°C ambient to ABSOLUTE RATINGS Maximum repetitive peak reverse Maximum DC blocking voltage Maximum Average rectified outpi Peak forward surge current 8.3m superimposed on rated load. Peak Repetitive Reverse Surge C Operating junction and Storage T STATIC ELECTRICAL CH PARAMETER Forward voltage (Note 4)	D ELECTRICA emperature ur METER e voltage ut current is single half sine Current Femperature rang HARACTERIS	@T _c =125°C -wave @tp=2us ge STICS CONDITIONS T_J=25°C	e specified. SYMBOL V _{RRM} V _{DC} I(AV) I _{FSM} I _{RRM} T _J , T _{STG}		150 150 15 150 3 -55 ~ +150 TYP 0.84	0.86	V V A A A C UNIT
MAXIMUM RATINGS ANI Ratings at 25°C ambient to ABSOLUTE RATINGS Maximum repetitive peak reverse Maximum DC blocking voltage Maximum Average rectified outpr Peak forward surge current 8.3m superimposed on rated load. Peak Repetitive Reverse Surge C Operating junction and Storage T STATIC ELECTRICAL CH PARAMETER	D ELECTRICA emperature ur METER e voltage ut current is single half sine Current Femperature rang HARACTERIS IF=15A	@T _c =125°C -wave @tp=2us ge STICS CONDITIONS T_J=25°C T_J=125°C T_J=25°C	e specified. SYMBOL V _{RRM} V _{DC} I(AV) I _{FSM} I _{RRM} T _J , T _{STG} SYMBOL V _F		150 150 15 150 3 -55 ~ +150 TYP 0.84 0.68	0.86 0.75 20	V V A A A O C UNIT V UNIT
MAXIMUM RATINGS ANI Ratings at 25°C ambient to ABSOLUTE RATINGS Maximum repetitive peak reverse Maximum DC blocking voltage Maximum Average rectified outp Peak forward surge current 8.3m superimposed on rated load. Peak Repetitive Reverse Surge C Operating junction and Storage T STATIC ELECTRICAL CH PARAMETER Forward voltage (Note 4) Reverse Current Breakdown voltage	DELECTRICA emperature un METER e voltage ut current is single half sine Current Temperature rang HARACTERIS IF=15A $V_R=150V$ $I_R=100uA$	hless otherwise $@T_c=125^{\circ}C$ -wave @tp=2us ge STICS SONDITIONS $T_J=25^{\circ}C$ $T_J=25^{\circ}C$ $T_J=25^{\circ}C$ $T_J=25^{\circ}C$ $T_J=25^{\circ}C$	e specified. V _{RRM} V _{DC} I _(AV) I _{FSM} I _{RRM} T _J , T _{STG} SYMBOL V _F I _R		150 150 15 150 3 -55 ~ +150 TYP 0.84 0.68 0.71	0.86 0.75 20 10	V V A A A O C UNIT V UNIT V uA mA
MAXIMUM RATINGS ANI Ratings at 25°C ambient to ABSOLUTE RATINGS Maximum repetitive peak reverse Maximum DC blocking voltage Maximum Average rectified outp Peak forward surge current 8.3m superimposed on rated load. Peak Repetitive Reverse Surge 0 Operating junction and Storage 1 STATIC ELECTRICAL CH PARAMETER Forward voltage (Note 4) Reverse Current Breakdown voltage DYNAMIC ELECTRICAL C	DELECTRICA emperature un METER e voltage ut current is single half sine Current Femperature rang HARACTERIS IF=15A $V_R=150V$ $I_R=100uA$ CHARACTER	hless otherwise $@T_c=125^{\circ}C$ -wave @tp=2us ge STICS SONDITIONS $T_J=25^{\circ}C$ $T_J=25^{\circ}C$ $T_J=25^{\circ}C$ $T_J=25^{\circ}C$ $T_J=25^{\circ}C$	e specified. SYMBOL V _{RRM} V _{DC} I _(AV) I _{FSM} I _{RRM} T _J , T _{STG} SYMBOL V _F I _R V _B		150 150 15 150 3 -55 ~ +150 TYP 0.84 0.68 0.71 	0.86 0.75 20 10	V V A A A C C UNIT V UNIT V UNIT V V
MAXIMUM RATINGS ANI Ratings at 25°C ambient to ABSOLUTE RATINGS Maximum repetitive peak reverse Maximum DC blocking voltage Maximum Average rectified outpu Peak forward surge current 8.3m superimposed on rated load. Peak Repetitive Reverse Surge (Operating junction and Storage T STATIC ELECTRICAL CH PARAMETER Forward voltage (Note 4) Reverse Current Breakdown voltage DYNAMIC ELECTRICAL (PARA	D ELECTRICA emperature un METER e voltage ut current is single half sine Current Temperature rang IARACTERIS IF=15A $V_R=150V$ $I_R=100uA$ CHARACTER	hless otherwise $@T_c=125^{\circ}C$ -wave @tp=2us ge STICS SONDITIONS $T_J=25^{\circ}C$ $T_J=25^{\circ}C$ $T_J=25^{\circ}C$ $T_J=25^{\circ}C$ $T_J=25^{\circ}C$	e specified. SYMBOL V _{RRM} V _{DC} I _(AV) I _{FSM} I _{RRM} T _J , T _{STG} SYMBOL V _F I _R V _B		150 150 15 150 3 -55~+150 TYP 0.84 0.68 0.71 	0.86 0.75 20 10	V V A A O°C UNIT V uA MA V UNIT UNIT
MAXIMUM RATINGS ANI Ratings at 25°C ambient to ABSOLUTE RATINGS Maximum repetitive peak reverse Maximum DC blocking voltage Maximum Average rectified outpu Peak forward surge current 8.3m superimposed on rated load. Peak Repetitive Reverse Surge (Operating junction and Storage 1 STATIC ELECTRICAL CH PARAMETER Forward voltage (Note 4) Reverse Current Breakdown voltage DYNAMIC ELECTRICAL (PARA Typical junction capacitance (Note 1)	DELECTRICA emperature un METER e voltage ut current is single half sine Current Temperature rang HARACTERIS Ir=15A $V_R=150V$ $I_R=100uA$ CHARACTER AMETER ote 5)	hless otherwise $@T_c=125^{\circ}C$ -wave @tp=2us ge STICS SONDITIONS $T_J=25^{\circ}C$ $T_J=25^{\circ}C$ $T_J=25^{\circ}C$ $T_J=25^{\circ}C$ $T_J=25^{\circ}C$	e specified. SYMBOL V _{RRM} V _{DC} I _(AV) I _{FSM} I _{RRM} T _J , T _{STG} SYMBOL V _F I _R V _B		150 150 15 150 3 -55 ~ +150 TYP 0.84 0.68 0.71 	0.86 0.75 20 10	V V A A A C C UNIT V UNIT V UNIT V V
MAXIMUM RATINGS ANI Ratings at 25°C ambient to ABSOLUTE RATINGS Maximum repetitive peak reverse Maximum DC blocking voltage Maximum Average rectified outpi Peak forward surge current 8.3m superimposed on rated load. Peak Repetitive Reverse Surge C Operating junction and Storage T STATIC ELECTRICAL CH PARAMETER Forward voltage (Note 4) Reverse Current Breakdown voltage DYNAMIC ELECTRICAL CH PARA Typical junction capacitance (Note THERMAL CHARACTER	D ELECTRICA emperature un METER e voltage ut current is single half sine Current Femperature rang HARACTERIS IF=15A $V_R=150V$ $I_R=100uA$ CHARACTER METER ote 5) ISTICS	hless otherwise $@T_c=125^{\circ}C$ -wave @tp=2us ge STICS SONDITIONS $T_J=25^{\circ}C$ $T_J=25^{\circ}C$ $T_J=25^{\circ}C$ $T_J=25^{\circ}C$ $T_J=25^{\circ}C$	e specified. SYMBOL V _{RRM} V _{DC} I _(AV) I _{FSM} I _{RRM} T _J , T _{STG} SYMBOL V _F I _R V _B SYMBOL C _J		150 150 15 150 3 -55 ~ +150 TYP 0.84 0.68 0.71 TYP 905	0.86 0.75 20 10	V V A A A C C UNIT V UNIT pF
MAXIMUM RATINGS ANI Ratings at 25°C ambient to ABSOLUTE RATINGS Maximum repetitive peak reverse Maximum DC blocking voltage Maximum Average rectified outpi Peak forward surge current 8.3m superimposed on rated load. Peak Repetitive Reverse Surge C Operating junction and Storage T STATIC ELECTRICAL CH PARAMETER Forward voltage (Note 4) Reverse Current Breakdown voltage DYNAMIC ELECTRICAL CH PARA Typical junction capacitance (Note THERMAL CHARACTER	DELECTRICA emperature un METER e voltage ut current is single half sine Current Temperature rang HARACTERIS Ir=15A $V_R=150V$ $I_R=100uA$ CHARACTER AMETER ote 5)	hless otherwise $@T_c=125^{\circ}C$ -wave @tp=2us ge STICS SONDITIONS $T_J=25^{\circ}C$ $T_J=25^{\circ}C$ $T_J=25^{\circ}C$ $T_J=25^{\circ}C$ $T_J=25^{\circ}C$	e specified. SYMBOL V _{RRM} V _{DC} I(AV) I _{FSM} I _{RRM} T _J , T _{STG} SYMBOL V _F I _R V _B SYMBOL C _J		150 150 15 150 3 -55 ~ +150 0.71 TYP 905 TYP	0.86 0.75 20 10	V V A A A C C V UNIT V UNIT pF
MAXIMUM RATINGS ANI Ratings at 25°C ambient to ABSOLUTE RATINGS Maximum repetitive peak reverse Maximum DC blocking voltage Maximum Average rectified outpi Peak forward surge current 8.3m superimposed on rated load. Peak Repetitive Reverse Surge C Operating junction and Storage T STATIC ELECTRICAL CH PARAMETER Forward voltage (Note 4) Reverse Current Breakdown voltage DYNAMIC ELECTRICAL CH PARA Typical junction capacitance (Note THERMAL CHARACTER	DELECTRICA emperature un METER e voltage ut current is single half sine Current Temperature rang HARACTERIS IF=15A $V_R=150V$ $I_F=150V$ $I_R=100uA$ CHARACTER AMETER ote 5) ISTICS METER	hless otherwise $@T_c=125^{\circ}C$ -wave @tp=2us ge STICS SONDITIONS $T_J=25^{\circ}C$ $T_J=25^{\circ}C$ $T_J=25^{\circ}C$ $T_J=25^{\circ}C$ $T_J=25^{\circ}C$	e specified. SYMBOL V _{RRM} V _{DC} I _(AV) I _{FSM} I _{RRM} T _J , T _{STG} SYMBOL V _F I _R V _B SYMBOL C _J SYMBOL RthJ _c		150 150 15 150 3 -55~+150 0.71 TYP 905 905 2	0.86 0.75 20 10	V V A A O°C UNIT V uA MA V UNIT UNIT
MAXIMUM RATINGS ANI Ratings at 25°C ambient to ABSOLUTE RATINGS Maximum repetitive peak reverse Maximum DC blocking voltage Maximum Average rectified outpu Peak forward surge current 8.3m superimposed on rated load. Peak Repetitive Reverse Surge (Operating junction and Storage 1 STATIC ELECTRICAL CH PARAMETER Forward voltage (Note 4) Reverse Current Breakdown voltage DYNAMIC ELECTRICAL (PARA Typical junction capacitance (Note THERMAL CHARACTER PARA	DELECTRICA emperature un METER e voltage ut current is single half sine Current Temperature rang HARACTERIS IF=15A $V_R=150V$ $I_F=150V$ $I_R=100uA$ CHARACTER AMETER ote 5) ISTICS METER	hless otherwise $@T_c=125^{\circ}C$ -wave @tp=2us ge STICS SONDITIONS $T_J=25^{\circ}C$ $T_J=25^{\circ}C$ $T_J=25^{\circ}C$ $T_J=25^{\circ}C$ $T_J=25^{\circ}C$	e specified. SYMBOL V _{RRM} V _{DC} I(AV) I _{FSM} I _{RRM} T _J , T _{STG} SYMBOL V _F I _R V _B SYMBOL C _J		150 150 15 150 3 -55 ~ +150 0.71 TYP 905 TYP	0.86 0.75 20 10	V V A A A C C UNIT V UNIT pF UNIT

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.
 300us pulse width, 2% duty cycle.
 Measured at 1.0MHz and applied voltage of 4.0V DC.
 Thermal resistance test performed in accordance with JESD-51.
 The unit mounted on Copper heatsink 60mm x 60mm x 1.7mm.

RATING AND CHARACTERISTIC CURVES G15H150D5

LITE-ON SEMICONDUCTOR

100

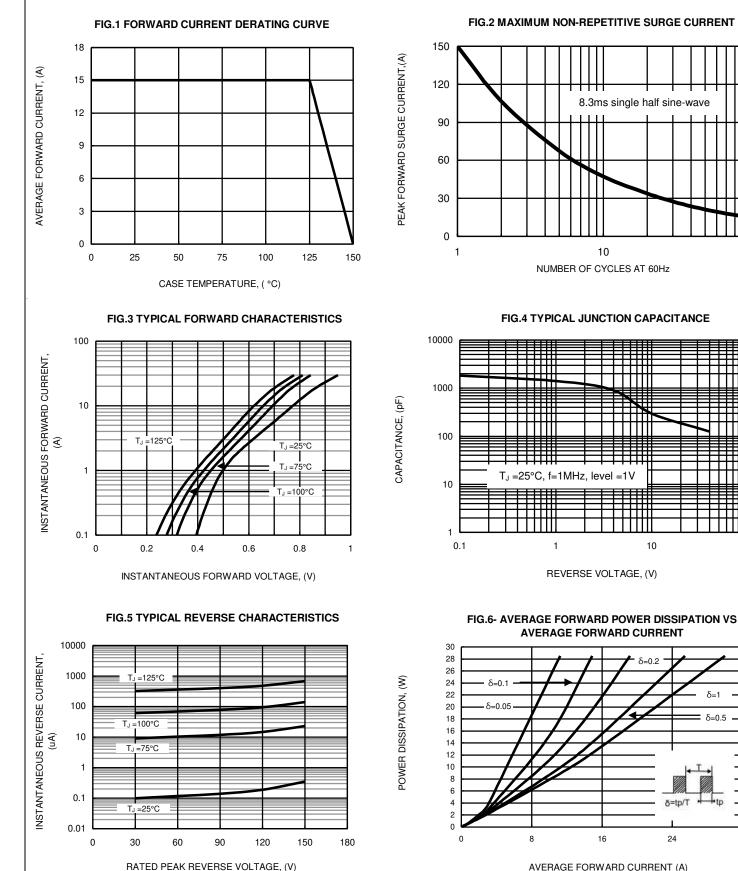
100

δ=1

δ=0.5

to

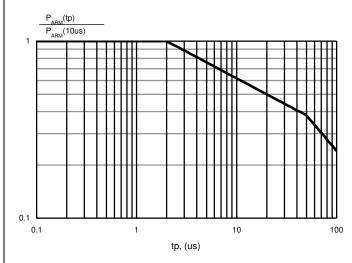
32



AVERAGE FORWARD CURRENT (A)



FIG.7- NORMALIZED AVALANCHE POWER DERATING VERSUS PULSE DURATION



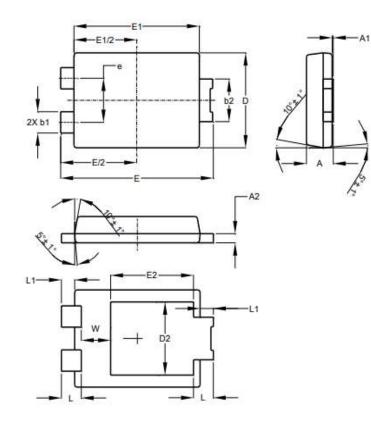


Ordering Information :

	Part Number	Deekere	Pa	acking
	Part Number	Package	Qty.	Carrier
	G15H150D5	PowerDI5	5000	Tape & Reel
arking inforn	Logo Product Type Marking Code	LT YXWW G15H150	X: Ma	ode ear code anufacturer's Internal o Week code

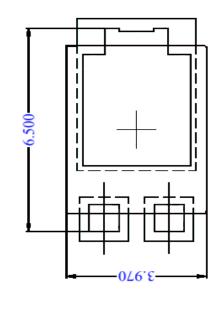


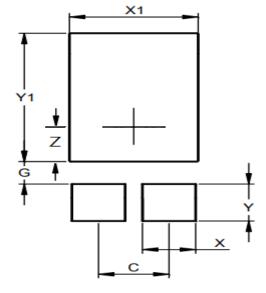
Suggested Package:



PowerDI5							
DIM.	MIN.	MAX	TYP				
Α	1.05	1.15	1.10				
A1	0	0.05					
A2	0.33	0.43	0.381				
b1	0.80	0.99	0.89				
b2	1.70	1.88	1.78				
D	3.90	4.05	3.966				
D2			3.05				
Е	6.40	6.60	6.51				
е	1	1.84 NOI	M				
E1	5.30	5.45	5.37				
E2			3.549				
L	0.75	0.95	0.85				
L1	0.50	0.65	0.57				
W	1.10	1.41	1.255				
All d	limensio	n in millii	meter				

Soldering Pad Layout :

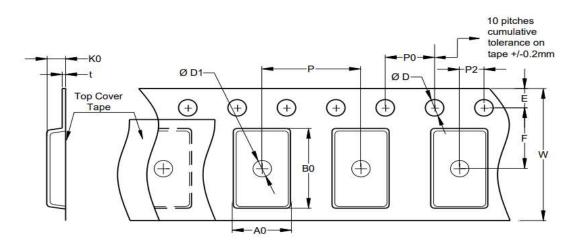




Dimensions	Value (mm)
С	1.840
G	0.852
Х	1.390
X1	3.360
Y	1.400
Z	1.310
Y1	4.860



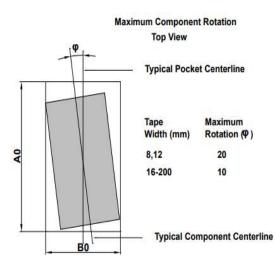
Embossed Carrier Dimensions

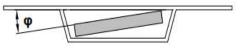


EMBOSSED TYPE

Unit:mm

TYPE SIZE	A0	B0	D	D1	E	F
	4.225±0.106	6.845±0.115	1.55±0.05	1.50±0.25	1.75±0.10	7.50±0.10
16mm	K0	Р	P0	P2	t	
	1.290±0.120	8.00±0.10	4.00±0.10	2.00±0.05	0.290±0.060	

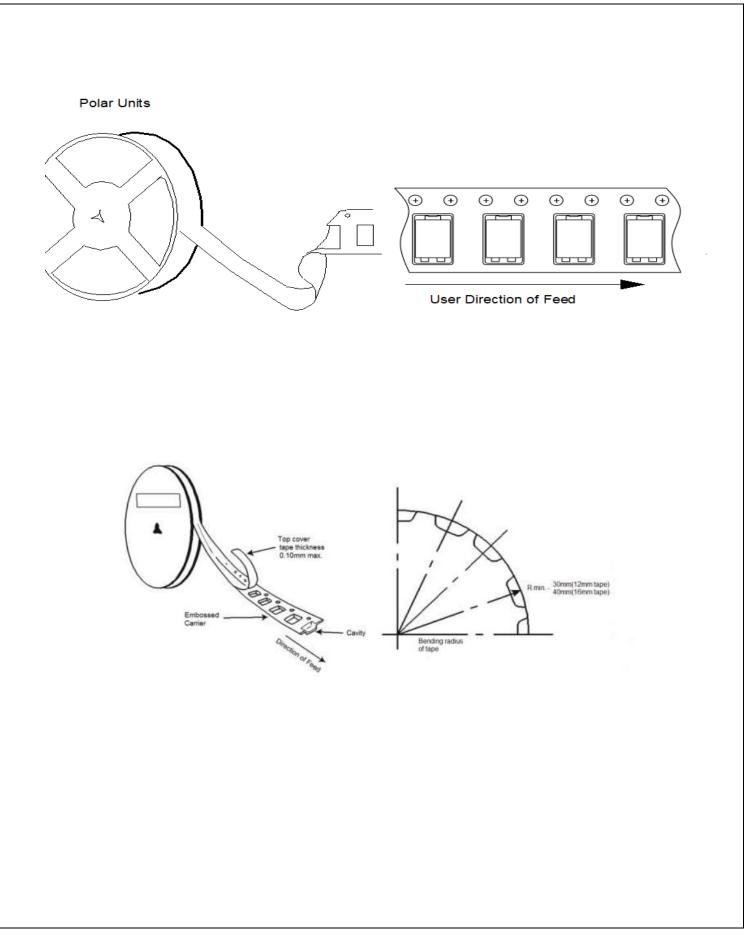




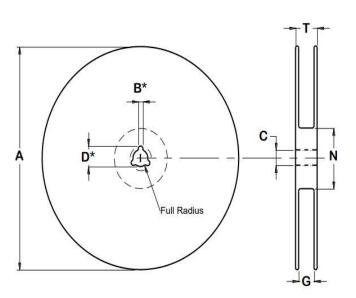
Tape Width (mm)	Maximum Rotation (Φ)
8,12	20
16-56	10
72-200	5

PACKAGE AND PACKING INFORMATION G15H150D5

LITE-ON SEMICONDUCTOR







REEL DIMENSIONS

Unit:mm

TAPE SIZE	Reel Size	А	B MAX	С	D MAX	N MIN	G	T MAX
16mm	13"	330±2	2.0+0.5/-0	13+0.5/-0.2	20.5±0.2	100±2	16.4+2.0/-0	22.4

PACKING

Reel SIZE	Q'TY/REEL	BOX SIZE	Q'TY/BOX	CARTON SIZE	Q'TY/CARTON
	(PCS)	(mm)	(PCS)	(mm)	(PCS)
13"	5K			335X335X310	60K



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