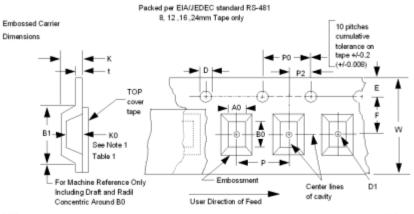


LITE-ON **SEMICONDUCTOR**

SURFACE MOUNT PACKAGING - REV. JULY, 2018



EMBOSSED TAPE

ALL DIMENSION IN MILLIMETERS

TAPE SIZE	D	E	PO	t (MAX)	A0B0K0	CONCTANT
8mm/ 12mm 16mm/ 24mm	1.55+0.10/-0.0	1.75+/-0.10	4.0+/-0.10	0.4	SEE NOTE 1	DIMENSION

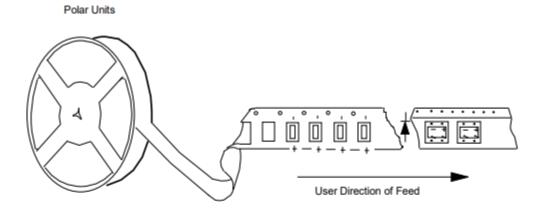
PRODUCT TYPE	TAPE SIZE	B1 MAX	D1 MIN	F	K MAX	P2	w	Р	
SOT Series SOD-123 SOD-323 SLP1006P3 SLP1610P4 SLP1616P6 SLP2510P8 SLP2626P10 SLP2513P12 SLP3016P12 FBP-02C FBP-03B LL-34		4.5	1.0		2.4			4.0+/10	
SOD-523 SOD-723 SOD-882 SOD-923 SOD-123F	8mm			3.5+/-0.05		2.0+/-0.05	8.0+/030	2.0+/05	
SOD-323F SLP2116P8 SLP1210P6 SOD-523F			0.75 0.55 0.4					4.0+/10 2.0+/05	
DFN3030 DFN3020 DFN2520 DFN4040		3.23 3.23 2.68 4.25	1.0 1.0 1.0 1.5		0.805 0.805 0.75 0.9			4.0+/10 4.0+/10 4.0+/10 8.0+/10	VARIABLE DIMENSIONS
DO-219	1	5.0	1.00	Ī	1.85	2.0+/-0.10	8.0+/-0.10	4.0+/10	1
SLP5020P8 SLP4016P16		6.0 5.0	1.0		1.2			4.0+/10	
SLP3313P16 LL-41 SOP-8		5.4			3.4				
MSOP-10L DO-222AA		4.0 5.0			1.65	2.0+/-0.05		8.0+/10	
DO-221AC DO-216AA SMA	12mm	6.5 5.3		5.5+/-0.1	1.37		12.0+/30	4.0+/10	
SMB HDDF/ TD/ MSB1 SOT-223		8.2	1.5		4.5			8.0+/10	
PDFN56]	5.3]		1.2			0.0*/10	
ABS / HDS		8.2	1		1.8	2.0+/-0.1			
MBF		7.1			1.66	2.0.7-0.1			
SMC DF-S / TT TO-252	16mm	12.1		7.5+/-0.10	3.29 3.7 3.15	2.0+/-0.1	16.0+/-0.30	8.0+/10 12.0+/10 8.0+/10	
D2PAK	24mm	20.1]	11.5+/-0.10	6.5	2.0+/-0.1	24.0+/30	16.0+/10	
F5	24mm	15.4		11.5+/-0.10	2.2	2.0+/-0.1	24.0+/30	16.0+/10	
DO-219	12mm	5.1	1.0	5.5+/-0.10	1.9	2.0+/-0.1	12.0+.30/- .10	4.0+/10	
DFN8080	16mm	8.3		7.5+/-0.10	1.15	2.0+/-0.1	16.0+/-0.30	12.0+/10	

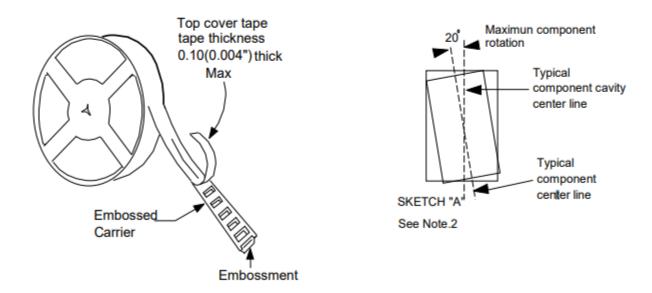
Note 1: A0B0K0 are determined by component size. The clearance between the component and the cavity must be within 0.05 min. to 0.50 max. for 8 mm tape. 0.05 min. to 0.65 max. for 12mm tape. 0.15 min. to 0.90 max. for 16mm tape and 0.05 min. to 1.00 max. for 24 mm tape and larger.



LITE-ON SEMICONDUCTOR

SURFACE MOUNT PACKAGING - REV. JULY, 2018



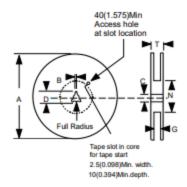


NOTE 2: The component can not rotate more than 20° within the determined cavity, see sketch "A" below



LITE-ON SEMICONDUCTOR

SURFACE MOUNT PACKAGING - REV. JULY, 2018



REEL DIMENSIONS

Unit: mm

TAPE SIZE	A MAX.	B MIN.	С	D MIN.	N MIN.	G	T MAX.
8mm	178		13.0+/-0.5	20.2		8.4+1.5/-0.0	14.4
12mm		1				12.4+2.0/-0.0	18.4
16mm	178 / 330	1.5			75	12.4+2.0/-0.0	22.4
4mm	1					12.4+2.0/-0.0	30.4
12mm(DO-219)	330					12.4+2.0/-0.0	18.4
8mm(DO-219)	178	2.2+/-0.3	13.2+/-0.5	1	54	9.5+2.0/-0.0	15

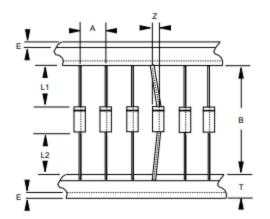
	Q'TY/REEL	REEL DIA.	BOX SIZE	O/TV/BOX	CARTON SIZE	Q'TY/CARTON
DEVICE TYPE	(PCS)	(mm)	(mm)	(PCS)	(mm)	(PCS)
SMA	5000	, ,	` '	5000	, ,	60000
SMB		1	334x334x21			
HDDF/TD / MSB1	1			3000	350x350x340	36000
SMC	3000		338x338x26			
MSOP-10L/SOP-8	1		336x336x48	6000	365x355x445	48000
π	2000	1		2000		20000
DF-S	1500	330		1500		15000
TO-252	2500	1	338x338x26	2500		2500
D2PAK	800	1		800	350x350x340	6400
DO-222A/DO-216AA	12000	1		12000		144000
DO-221AC	10000	1	334x334x21	40000		400000
DO-219	10000	1		10000		120000
SOT-223	2500	1	353x347x50	5000	360x360x315	30000
DO-222A/DO-216AA	3000			12000		102000
DO-221AC	3000			12000		192000
DO-219	2500	1	184x184x72	10000		160000
SMA	1500	1		6000	380x380x360	96000
SMB	500	1		0000		22222
SMC	500		184x184x88	2000		32000
SOT SERIES SOD-123/323/523/723 FBP-02C/03B SLP1006P3, SLP1610P4 SLP1616P6, SLP2510P8 · SLP2116P8, SLP2626P10, SLP2513P12, SLP3016P12, SLP1210P6	3000	178	206x207x203	45000	438x438x241	90000 /180000
SLP4016P16, SLP3313P16	1			36000		72000
SLP5020P8	1			30000		60000 / 120000
SOD-882	10000	1		150000		300000
SOD-923	8000	1		120000		480000
LL-34	2500	1		15000		90000
LL-41	1500]	188x183x80	9000	386x265x215	54000
SOD-123F SOD-323F/ SOD-523F	3000		100x103x00	18000	360X200X215	108000
F5	1500	330	345*355*43	1500	355*346*376	10500
PDFN56	3000	330	345*355*30	3000	355*346*376	30000
DFN4040	3000	330	345*355*30	3000	355*346*376	30000
DFN8080	2500	330	345*355*30	2500	355*346*376	25000
DFN3020 DFN3020 DFN2520	3000	178	207*206*208	45000	438*224*227	90000

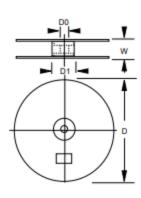


REEL PACKAGING - REV. JULY, 2018

Axial devices are packed in accordance with EIA standard RS-296-D and specification.

COMPONENT OUTLINE	COMPONENT PITCH A	COMPONENT PITCH B	CUMULATIVE PITCH TOLERANCE	QTY	Q'TY PER CARTON	Carton Dimension	
T-1				5000	20K		
DO-41	5.0 mm		2.0mm/10 pitch	5000	20K		
DO-15		52.4mm		4000	16K	340x340x340 mm	
DO-201/DO-201AD	10 mm			1200	4.8K		
R-6	10 mm			700	2.8K		





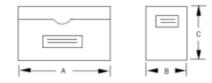
ITEM	SYMBOL	SPECIFICAITON (mm)
Component alignment	Z	1.2 Max.
Tape width	Т	6.0 +/-0.4
Exposed adhesive	E	0.8 Max.
Body eccentricity	L1-L2	1.0 Max
Reel outside diameter	D	330
Reel inner diameter	D1	85.7+/-0.3
Feed hole diameter	D0	16.6+/-0.4
Reel width (Note 1)	W	79+-/1.0

NOTE: 1. The reel width "W" for 26 mm taping is 50.0 +/- 1.0 mm (1.97" +/- 0.040")



LITE-ON SEMICONDUCTOR

AMMO BOX PACKAGING - REV. JULY, 2018



BOX SIZE					Unit: mm
Packaging	Products Outline	Dimension	Dimension	Dimension	Q'TY per
rackaging	Freducts Counte	"A"	"B"	"C"	BOX
26mm Horizontal	T-1, A-405, DO-41	255 ~ 259	50 ~ 54	107 ~ 113	3K
Ammo Pack	DO-15	255 ~ 258	30 ~ 34	107 ~ 113	2K
	DO-15				2K
	T-1, A-405, DO-41	259	83	113	3K
52mm Horizontal	DO-201, DO-201AD				1K
Ammo Pack	DO-34 (Glass Seal)	250 ~ 265	76 ~ 80	80 ~ 122	5K/10K
	DO-35 (Glass Seal)	250 ~ 265	76 ~ 80	80 ~ 122	SK/TOK
	DO-41 (Glass Seal)	250	80	80	3K

CARTON SIZE

Packaging	Products Outline	Dimension	Dimension	Dimension	Q'TY per
rackaging	rioddols Oddine	Length	Width	Height	Carton
26mm Horizontal	T-1, A-405, DO-41	530	300	280	54K
Ammo Pack	DO-15	330	300	200	36K
	DO-15				24K
	T-1, A-405, DO-41	545	300	280	36K
52mm Horizontal	DO-201, DO-201AD				12K
Ammo Pack	DO-34 (Glass Seal)	405 ~ 430	270 ~ 275	270 ~ 340	100K
	DO-35 (Glass Seal)	400 ~ 430	210 ~ 215	270 ~ 340	100K
	DO-41 (Glass Seal)	430	270	340	60K

BULK PACKAGING

BOX:

DOX.							
DEVICE	PACKAGING	SIZE (m.m.)	QUANTI	TY (EA)	APPROX GROSS WEIGHT(KG)		
TYPE	BOX	CARTON	BOX	CARTON	BOX	CARTON	
A-405	196x84x20	450x210x250	1000	50K	0.29	15.8	
DO-41	196x84x20	450x210x250	1000	50K	0.38	20	
DO-15	196x84x20	450x210x250	800	40K	0.38	20	
DO-201/DO-201AD	305x93x59	395x315x340	1000	20K	1.2	25	
R-6	305x93x59	395x315x340	500	10K	1.15	23.6	
WOG			1000	10K	1.6	18	

TUBE:

DEVICE	PAC	KAGING SIZE (m.m.)	QU	ANTITY (E	A)	APPROX (APPROX GROSS WEIGHT(KG)			
TYPE	TUBE	BOX	CARTON	TUBE	BOX	CARTON	TUBE	BOX	CARTON		
DF	444x15x13.3	490x155x145	510x330x275	50	4000	16K	0.04	3.5	14		
TO-220	537x34x 6.0	555x165x95	575x179x225	50	2000	4K	0.14	5.8	14.9		
TO-3P	502x46x 8.0	550x150x125	575x180x275	30	840	1.68K	0.24	7.1	15.1		
DF-S	444x15x5.9	490x155x145	350x350x340	50	4000	16K	0.03	6.8	14		
KBJ	525x37.3x7.1	550x200x110	580x230x270	20	1000	2K	0.16	7.4	15		
KBP/GBP	531x29.6x6.2	550x200x122	580x230x270	35	2800	5.6K	0.09	7.3	15.4		
GBU	465x41.5x6.2	500x200x120	520x210x265	20	1000	2K	0.132	6.6	14.2		
GBJ	475x42.5x7.2	500x200x120	520x210x265	15	600	1.2K	0.16	7.5	17		
GBL	535x35x6.5	550x200x122	580x220x260	25	1500	3K	0.095	6.1	13.2		

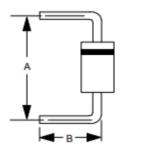
TRAY:

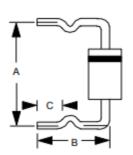
DEVICE	PACKAGING	SIZE (m.m.)	QUANTIT	Y (EA)	APPROX GROSS	S WEIGHT(KG)
TYPE	TRAY	CARTON	TRAY	CARTON	TRAY	CARTON
KBPC-G	320x280x30	330x290x210	100	0.5K	2.4	13
KBPC-GW	320x280x30	330x290x210	100	0.5K	2.1	11.5
GBPC	320x280x30	330x290x210	100	0.5K	1.98	11
GBPC-W	320x280x30	330x290x210	100	0.5K	1.70	9.5

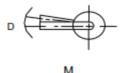


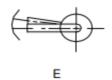
LITE-ON SEMICONDUCTOR

PREFORMED LEAD DRAWING - REV. JULY, 2018





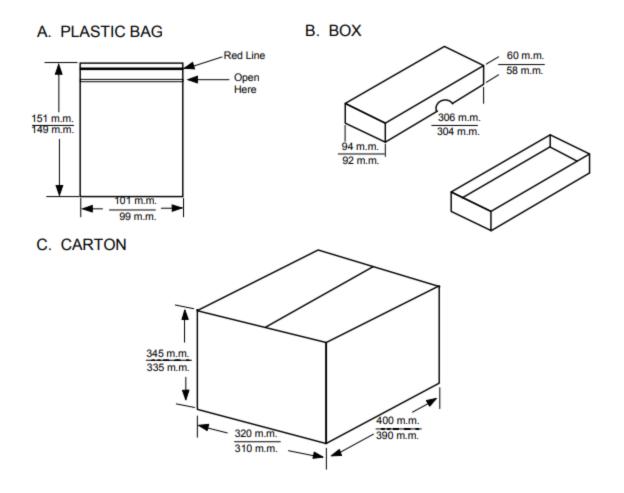




Case Preformed		A (mm)		B (mm)		C (mm)		D (mm)		R (mm)	
type type	Range	Tolerance	Range	Tolerance	Range	Tolerance	Range	Tolerance	Range	Tolerance	
DO-41	М	11.0-20.0	+/-0.5	8.0-20.0	+/-0.5			1.5	max	-	
A-405	E	11.0-20.0	+/-0.5	11.0-16.0	+/-1.0	4.0-5.0	+/-0.5	1.5	max		
DO-15	М	13.0-20.0	+/-0.5	8.0-22.0	+/-0.5			1.5	max		
DO-15	E	13.0-20.0	+/-0.5	11.0-16.0	+/-1.0	4.0-5.0	+/-0.5	1.5	max		
DO-201	M	15.0-20.0	+/-1.0	8.0-22.0	+/-1.0			2.0	max		
DO-201AD	E	15.0-20.0	+/-1.0	10.0-22.0	+/-1.0	3.0-5.0	+/-0.5	2.0	max		
R-6	М	15.0-20.0	+/-1.0	8.0-22.0	+/-1.0			2.0	max		

Press Forming Also Available

PACKAGE OF PREFORMED DIODE- REV. JULY, 2018

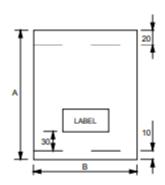


Case Type	Preformed Type		Q'TY/Plastic Bag	Q'TY/Box	Q'TY/Carton
	м	Short Type	400	2K	40K
DO-41	I W	Long Type	250	1.25K	25K
DO-41L		E	500	2.5K	50K
DO-412		В	250	1.25K	25K
	С		500	2.5K	50K
DO-15	М		400	2K	40K
		E	400	2K	40K
DO-201	M		100	500	10K
DO-201AD		E	100	500	10K
R-6		М	100	500	10K

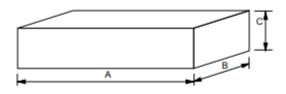
^{*} Preformed Type see front page.

PACKAGE OF TO-92 SERIES - REV. JULY, 2018

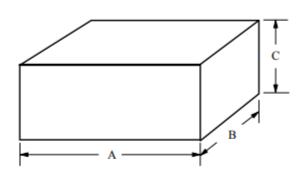




2. Inner Box



3. Carton



BULK PACKAGING

Unit: mm

P/N	DIMENSION "A"	DIMENSION "B"	DIMENSION "C"	Q'TY PER	REMARK
PLASTIC BAG	185	125		1K	
INNER BOX	242	170	100	10K	1 0 PAG
CARTON	520	360	270	100K	10 INNER BOX

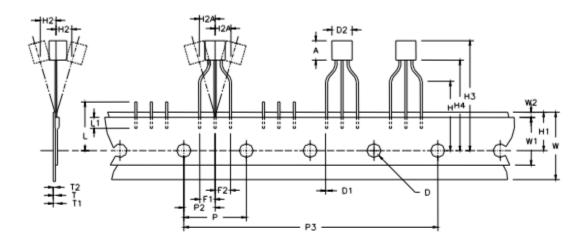
TAPPING PACKAGING

P/N	DIMENSION "A"	DIMENSION "B"	DIMENSION "C"	Q'TY PER	REMARK
INNER BOX	330	200	41	2K	1 PACK
CARTON	430	360	280	20K	10 INNER BOX



PACKAGE OF TO-92 SERIES - REV. JULY, 2018

Tape reel packing:

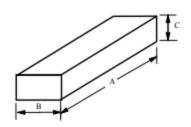


SYMBOL	ITEM	Metric system	Dimensions in inch
Α	Body height	4.4-4.8	0.173-0.189
D	Sprocket hole diameter	4.0±0.2	0.158±0.008
D1	Lead-wire diameter	0.45-0.55	0.018-0.022
D2	Body diameter	4.4-4.8	0.173-0.189
F1.F2	Compoment lead spacing	2.5+0.40.1	0.1+0.0150.004
Н	Lead wire clinch height	16±0.5	0.63±0.02
H1	Sprocket hole position	9±0.5	0.354±0.02
H2	Body shift	1MAX	0.04MAX
Н3	Overall height above abscissa	32.0MAX	1.26MAX
H4	Height of component from tape	21.0MAX	0.827MAX
P	Sprocket hole pitch	12.7±0.2	0.5±0.008
P2	Sprocket hole center to lead	6.35±0.4	0.25±0.018
P3	4 Sprocket holes pitch	50.8±0.5	2.0±0.02
T	Total tape thickness	0.55MAX	0.022MAX
W	Total tape width	17.5-19	0.689-0.748
W1	Carrier tape width	5.0-7.0	0.197-0.276
W2	Sprocket hole position	0.5MAX	0.02MAX
_	20 Sprocket holes pitch	254.0±1	10±0.04

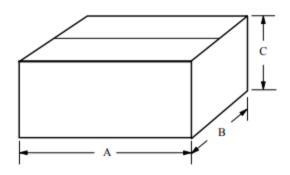


PACKAGE OF TO-220 (SCR/TRIAC/MOSFET) - REV. JULY, 2018

1. INNER BOX



2. CARTON



Unit: mm

P/N	DIMENSION "A"	DIMENSION "B"	DIMENSION "C"	Q'TY PER	REMARK
TUBE	537	34	6	50	
INNER BOX	575	150	50	1K	20 TUBE / 5 FLOORS
CARTON	595	270	170	5K	5 INNER BOX

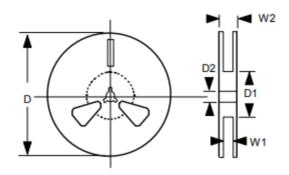
PACKAGE OF TO-3P (MOSFET)

Unit: mm

P/N	DIMENSION "A"	DIMENSION "B"	DIMENSION "C"	Q'TY PER	REMARK
TUBE	507	48	8	30	
INNER BOX	555	160	130	840	28TUBES
CARTON	565	170	270	1680	2 INNER BOXS



SWITCHING DIODE REEL PACKAGING - REV. JULY, 2018



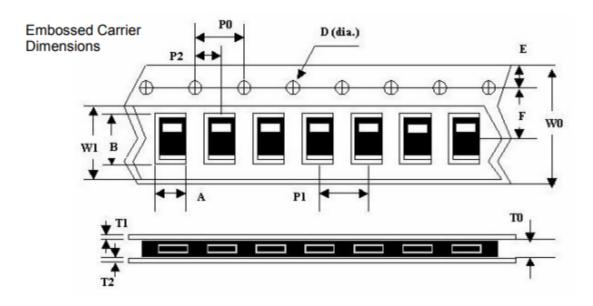
Reel Dimension Unit: mm (inch)

Item	Symbol	Dimension	
Feed hold diameter	D2	13.0+/-0.2 (0.512+/-0.008)	
Reel inner diameter	D1	60.0+/-0.5 (2.36+/-0.02)	
Reel outside dimameter D		178.0+/-1.0 (7.008+/-0.04)	
Reel inner width W1		9.0+/-0.5 (0.354+/-0.02)	
Reel ouside width W2		12.0+/-0.15 (0.472+/-0.006)	

PACKING Unit: mm

DEVICE TYPE	Q'TY/REEL (PCS)	REEL DIA. (mm)	BOX SIZE (mm)	Q'TY/BOX (PCS)	CARTON SIZE (mm)	Q'TY/CARTON (PCS)
1206						
0805	5000	178	181x181x74	30000	393x367x189	300000
0603						

SWITCHING DIODE REEL PACKAGING - REV. JULY, 2018



EMBOSSED TAPE Unit: mm

ltem		Symbol	Dimension
	1206		2.00+/-0.2 (0.079+/-0.008)
Punch hole idth	805	Α	1.65+/-0.2 (0.065+/-0.008)
	603		1.20+/-0.2 (0.047+/-0.008)
	1206		3.50+/-0.2 (0.138+/-0.008)
Punch hole length	805	В	2.40+/-0.2 (0.094+/-0.008)
	603		1.90+/-0.2 (0.075+/-0.008)
Sprocket hole		D	1.60+/-0.05 (0.063+/-0.002)
Sprocket hole position		Е	1.75+/-0.10 (0.070+/-0.004)
Punch hole position		F	3.50+/-0.05 (0.140+/-0.002)
Sprocket hole pitch		P0	4.00+/-0.10 (0.160+/-0.004)
Punch hole pitch		P1	4.00+/-0.10 (0.160+/-0.004)
Punch hole center		P2	2.00+/-0.05 (0.08+/-0.002)
Base tape width		W0	8.00+/-0.20 (0.320+/-0.008)
Top/Bottom seal tape width		W1	5.25+/-0.05 (0.210+/-0.002)
Base tape thickness		T0	0.95+/-0.02 (0.038+/-0.008)
Top seal tape thickness		T1	0.0054+/-0.005 (0.002+/-0.0002)
Bottom seal tape thickness		T2	0.042+/-0.05 (0.0016+/-0.0002)