



A xial lead device are packed in accordance with EIA standard RS-296-D and specifications given below

COMPONENT OUTLINE	COMPONENT PLTCH A	INNER TAPE PITCH B		CUMULATVE PITCH TOLERANCE
	±0.5mm(.020")	±1.5mm(.020")	±0.5mm(.020")	
DO-34/DO-35	5.0mm	26.0mm	—	2.0mm/20pitch
R-1	5.0mm	26.0mm	—	2.0mm/20pitch
A-405	5.0mm	26.0mm	—	2.0mm/20pitch
A-405	5.0mm	—	52.4mm	2.0mm/20pitch
DO-41	5.0mm	26.0mm	—	2.0mm/20pitch
DO-41	5.0mm	—	52.4mm	2.0mm/20pitch
DO-15	5.0mm	—	52.4mm	2.0mm/20pitch
DO-201AD	10.0mm	—	52.4mm	2.0mm/20pitch
R-6	10.0mm	—	52.4mm	2.0mm/20pitch

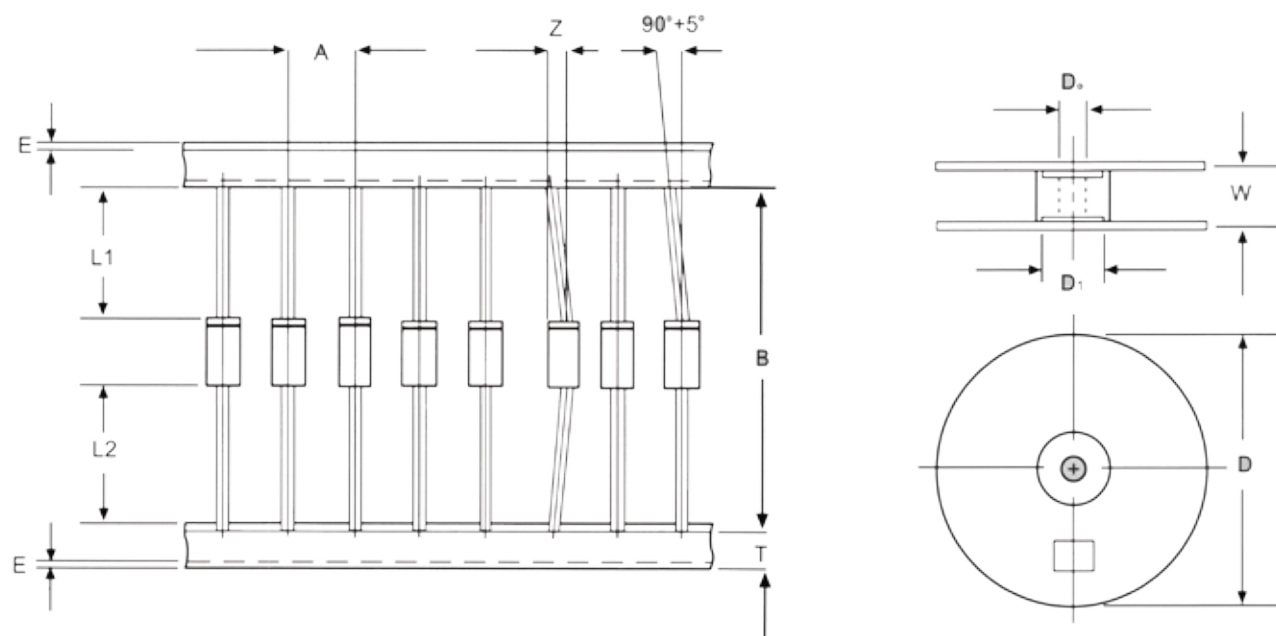


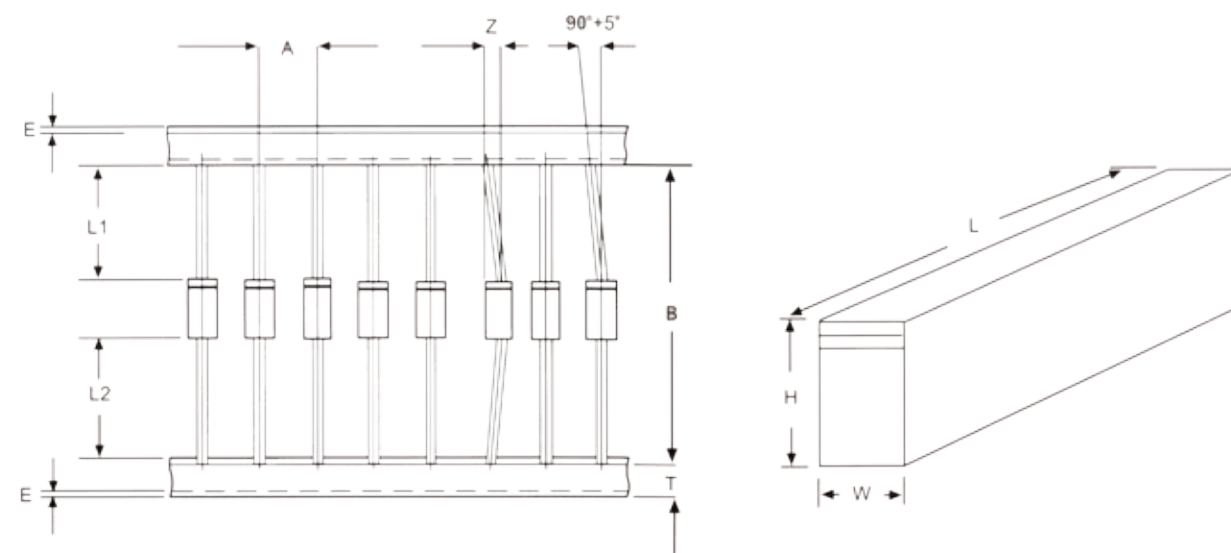
FIG:CONFIGURATION OF AXIAL TAPING

ITEM	SYMBOL	SPECIFICATIONS(mm)	SPECIFICATIONS(inch)
Component alignment	Z	1.2max	0.048max
Tape width	T	6.0±0.4	0.236±0.016
Exposed adhesive	E	0.8max	0.032max
Body eccentricity	IL1-L2I	1.0max	0.040max
Reeloutside diameter	D	330.0	13.0
Reel inner diameter	D1	85.7±0.3	3.375±0.012
Feed hole diameter	Do	30.5±0.4	1.201±0.016
Reel width	W	79.0±1.0	3.110±0.040

NOTE:1.Each component lead shall be sandwiched betwten tapes for A minimun of 3.2mm(0.126")
2.The reel "w "for 26mm taping 50.0±1.0mm(1.970"±0.040")

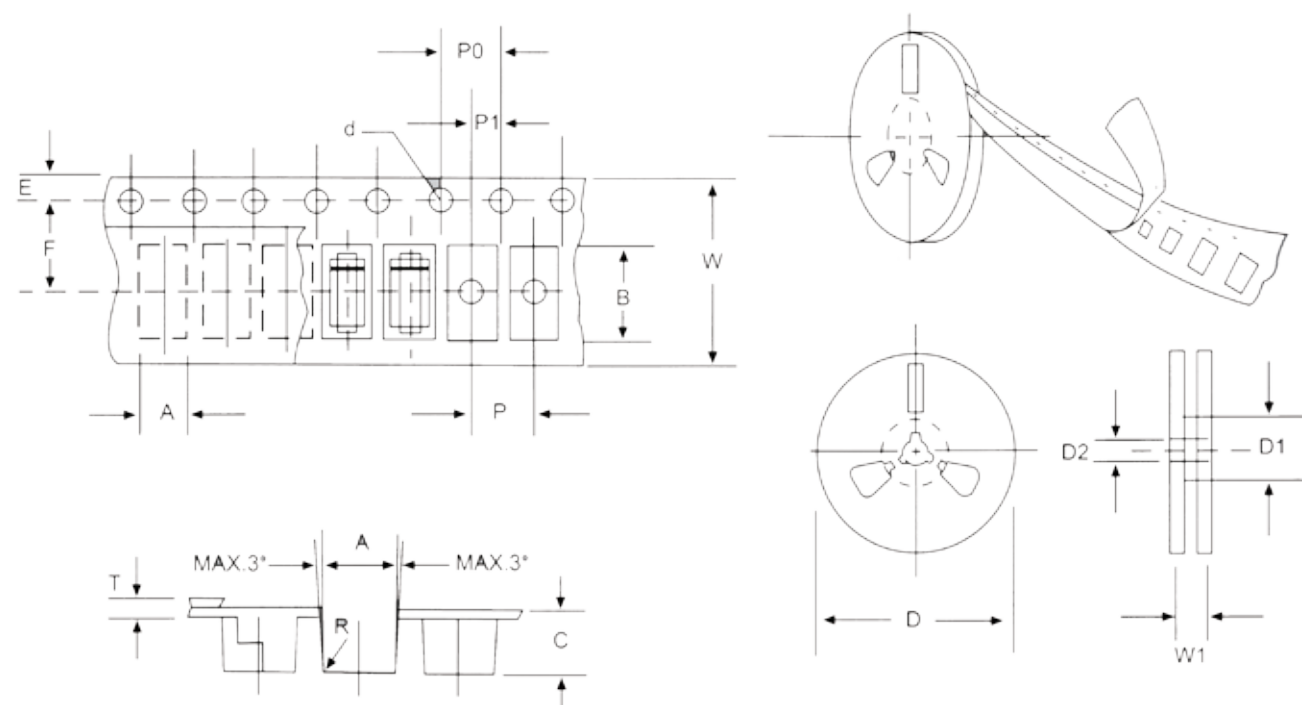
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COMPONENT OUTLINE	COMPONENT PLTCH A	INNER TAPE PITCH B	CUMULATIVE PITCH TOLERANCE
	±0.5mm(.020")	±0.5mm(.020")	
R-1	5.0mm	26.0mm	2.0mm/20pitch
R-1	5.0mm	52.4mm	2.0mm/10pitch
A-405	5.0mm	26.0mm	2.0mm/20pitch
A-405	5.0mm	52.4mm	2.0mm/10pitch
DO-34/DO-35	5.0mm	26.0mm	2.0mm/20pitch
DO-34/DO-35	5.0mm	52.4mm	2.0mm/10pitch
DO-41	5.0mm	26.0mm	2.0mm/20pitch
DO-41	5.0mm	52.4mm	2.0mm/10pitch
DO-27	5.0mm	52.4mm	2.0mm/10pitch
DO-15	10.0mm	52.4mm	2.0mm/10pitch
R-6	10.0mm	52.4m	2.0mm/10pitch



ITEM	SYMBOL	SPECIFICATIONS(mm)	SPECIFICATIONS(inch)
Component alignment	Z	1.2max	0.048max
Tape width	T	6.0±0.4	0.236±0.016
Exposed adhesive	E	0.8max	0.032max
Body eccentricity	IL1-L2I	1.0max	0.040max
Box lenght	L	255.0±5.0	10.04±0.197
Box width	W	78.0±5.0	3.07±0.197
Box height	H	150.0±5.0	5.91±0.197

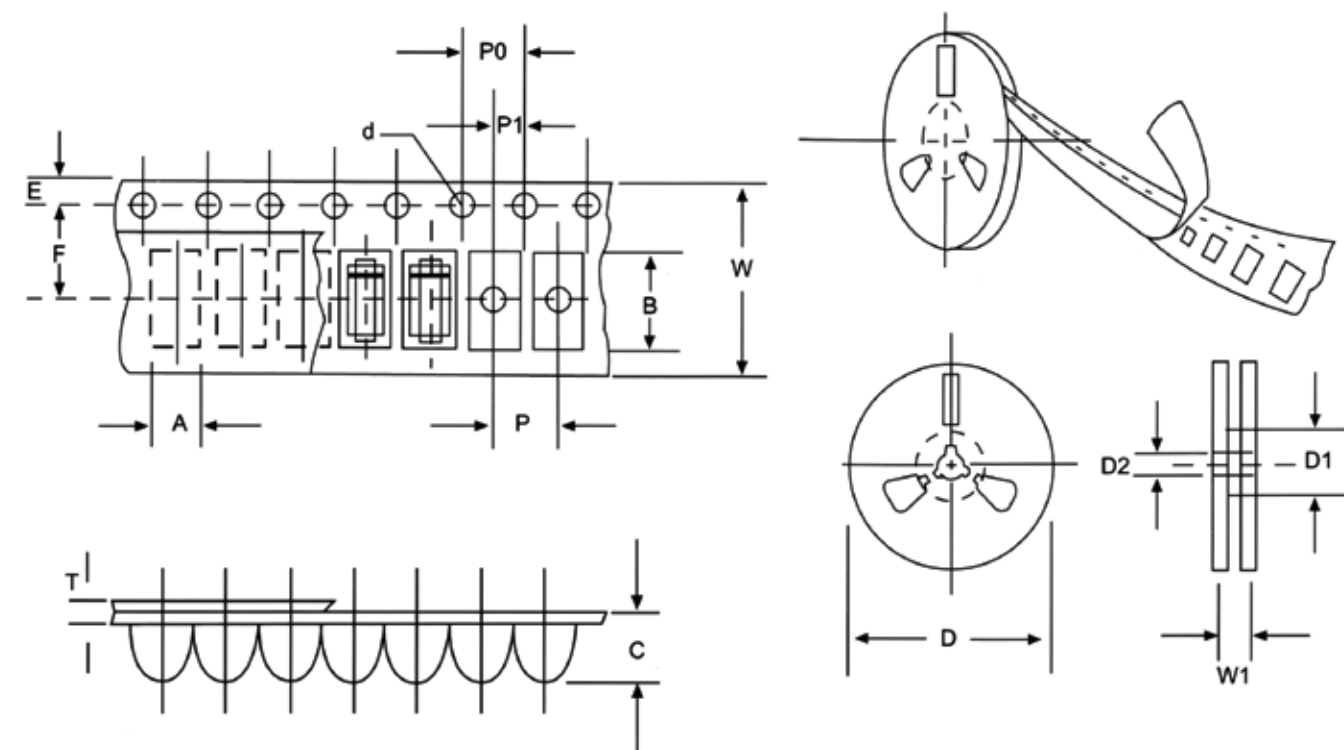
NOTE:Each component lead shall be sandwiched betwten tapes for A minimun of 3.2mm(0.126")



**FIG: CONFIGURATION OF AXIAL TAPING
(SMA/SMB/SMC)**

ITEM	SYMBOL	SMA mm(inch)	SMBmm(inch)	SMC mm(inch)
Carrier width	A	2.79±0.1(0.110±0.004)	4.09±0.1(0.161±0.004)	6.05±0.1(0.238±0.004)
Carrier width	B	5.33±0.1(0.210±0.004)	5.82±0.1(0.229±0.004)	8.31±0.1(0.327±0.004)
Carrier depth	C	2.36±0.1(0.093±0.004)	3.33±0.1(0.131±0.004)	2.50±0.1(0.1001±0.004)
Sprocket hole	d	1.5±0.05(0.059±0.002)	1.55±0.05(0.061±0.002)	1.5±0.1(0.059±0.004)
Reel outside diameter	D	330/281/178±2(13/11/7±0.79)	330/281/178±2(13/11/7±0.79)	330/281/178±2(13/11/7±0.79)
Reel inner diameter	D1	8.0±0.2(0.315±0.008)	8.0±0.2(0.315±0.008)	8.0±0.2(0.315±0.008)
Feed hole diameter	D2	13±0.5(0.512±0.020)	13±0.5(0.512±0.020)	13±0.5(0.512±0.020)
Sprocket hole position	E	1.75±0.1(0.069±0.004)	1.75±0.1(0.069±0.004)	1.5±0.1(0.059±0.004)
Punch hole position	F	5.5±0.05(0.217±0.002)	5.65±0.05(0.222±0.002)	7.65±0.05(0.301±0.002)
Punch hole pitch	P	4.0±0.1(0.157±0.004)	8.0±0.1(0.315±0.004)	8.0±0.1(0.315±0.004)
Sprocket hole pitch	P0	4.0±0.1(0.157±0.004)	4.0±0.1(0.157±0.004)	4.0±0.1(0.157±0.004)
Embossment center	P1	2.0±0.1(0.079±0.004)	2.0±0.1(0.079±0.004)	2.0±0.1(0.079±0.004)
Total tape thickness	T	0.28±0.02(0.011±0.0008)	0.32±0.1(0.013±0.004)	0.3±0.1(0.012±0.004)
tape width	W	12.0±0.2(0.472±0.008)	12.0±0.2(0.472±0.008)	16.0±0.2(0.630±0.008)
Reel width	W1	16.8±2.0(0.661±0.079)	16.8±2.0(0.661±0.079)	24.0±2.0(0.945±0.079)

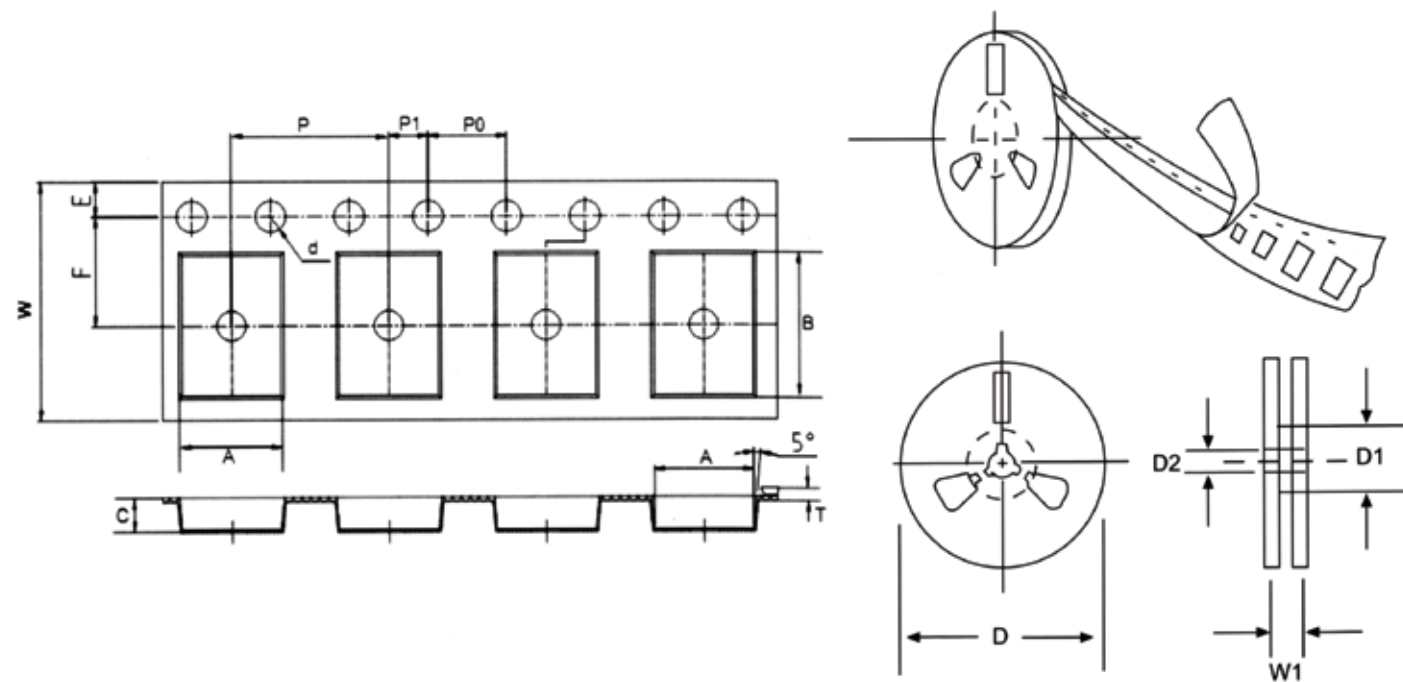
NOTE: Devices are packed in accordance with EIA standard RS-481-A and specification given above.



**FIG: CONFIGURATION OF FLAT MELF TAPING
SMAF/SMAS/SMBF/SOD-123FL/SOD-123SL**

ITEM	SYMBOL	SMAF/SMAS mm(inch)	SMBF mm(inch)	SOD-123FL(SL) mm(inch)
Carrier width	A	2.83±0.1(0.112±0.004)	3.80±0.1(0.150±0.004)	2.15±0.1(0.112±0.004)
Carrier width	B	4.90±0.1(0.193±0.004)	5.75±0.1(0.226±0.004)	3.95±0.1(0.187±0.004)
Carrier depth	C	1.45±0.1(0.057±0.004)	1.40±0.1(0.055±0.004)	FL: 1.45±0.1(0.057±0.004) SL: 1.35±0.1(0.053±0.004)
Sprocket hole	d	1.55±0.05(0.061±0.002)	1.55±0.05(0.061±0.002)	1.55±0.1(0.056±0.004)
Reel outside diameter	D	280/178±2.0(11/7.0±0.079)	330/281/178±2(13/11/7±0.79)	280/178±2.0(11/7.0±0.079)
Reel inner diameter	D1	8.0±0.2(0.315±0.008)	8.0±0.2(0.315±0.008)	8.0±0.2(0.315±0.008)
Feed hole diameter	D2	13±0.5(0.512±0.020)	13±0.5(0.512±0.020)	13±0.5(0.512±0.020)
Sprocket hole position	E	1.75±0.1(0.069±0.004)	1.75±0.1(0.069±0.004)	1.75±0.1(0.069±0.004)
Punch hole position	F	5.5±0.05(0.217±0.002)	5.5±0.05(0.217±0.002)	3.50±0.1(0.217±0.002)
Punch hole pitch	P	4.0±0.1(0.157±0.004)	8.0±0.1(0.315±0.004)	4.0±0.1(0.157±0.004)
Sprocket hole pitch	P0	4.0±0.1(0.157±0.004)	4.0±0.1(0.157±0.004)	4.0±0.1(0.157±0.004)
Embossment center	P1	2.0±0.1(0.079±0.004)	2±0.05(0.079±0.002)	2.0±0.1(0.079±0.004)
Total tape thickness	T	0.23-0.29(0.009-0.011)	0.23±0.02(0.009±0.0008)	0.22-0.26(0.009-0.010)
tape width	W	12.0±0.1(0.472±0.004)	12.0±0.1(0.472±0.004)	8.0±0.3±0.1(0.315±0.012±0.004)
Reel width	W1	16.8±2.0(0.661±0.079)	16.8±2.0(0.661±0.079)	10.0±2.0(0.394±0.079)

NOTE: Devices are packed in accordance with EIA standard RS-481-A and specification given above.



**FIG:CONFIGURATION OF FLAT MELF TAPING
ABS/MBS/MBF**

ITEM	SYMBOL	ABS mm(inch)	MBS mm(inch)	MBF mm(inch)
Carrier width	A	5.40+0.1(0.213+0.004)	5.05+0.1(0.198+0.004)	5.02+0.1(0.198+0.004)
Carrier width	B	6.90+0.05(0.272+0.002)	7.22+0.1(0.284+0.004)	7.15+0.1(0.281+0.004)
Carrier depth	C	2.10+0.1(0.083+0.004)	2.88+0.1(0.113+0.004)	1.65+0.1(0.074+0.004)
Sprocket hole	d	1.50+0.1/-0(0.059+0.004/-0)	1.50+0.1(0.059+0.004/-0)	1.50+0.1/-0(0.059+0.004/-0)
Reel outside diameter	D	330/281+2.0(13/11+0.279)	330/281+2.0(13/11+0.279)	330/281+2.0(13/11+0.279)
Reel inner diameter	D1	8.0+0.2(0.315+0.008)	8.0+0.2(0.315+0.008)	8.0+0.2(0.315+0.008)
Feed hole diameter	D2	13+0.5(0.512+0.020)	13+0.5(0.512+0.020)	13+0.5(0.512+0.020)
Sprocket hole position	E	1.75+0.1(0.069+0.004)	1.75+0.1(0.069+0.004)	1.75+0.1(0.069+0.004)
Punch hole position	F	5.5+0.05(0.217+0.002)	5.50+0.05(0.217+0.002)	5.50+0.1(0.217+0.002)
Punch hole pitch	P	8.0+0.1(0.315+0.004)	8.0+0.1(0.315+0.004)	8.0+0.1(0.315+0.004)
Sprocket hole pitch	P0	4.0+0.1(0.157+0.004)	4.0+0.1(0.157+0.004)	4.0+0.1(0.157+0.004)
Embossment center	P1	2.0+0.1(0.079+0.004)	2.0+0.1(0.079+0.004)	2.0+0.1(0.079+0.004)
Total tape thickness	T	0.10-0.70(0.004-0.028)	0.20-0.70(0.080-0.028)	0.20-0.70(0.008-0.028)
tape width	W	12.0+0.3/-0.1(0.472+0.004)	12.0+0.3/-0.1(0.472+0.004)	12.0+0.3/-0.1(0.472+0.004)
Reel width	W1	16.8+2.0(0.661+0.079)	16.8+2.0(0.661+0.079)	16.8+2.0(0.661+0.079)

NOTE: Devices are packed in accordance with EIA standard RS-481-A and specification given above.

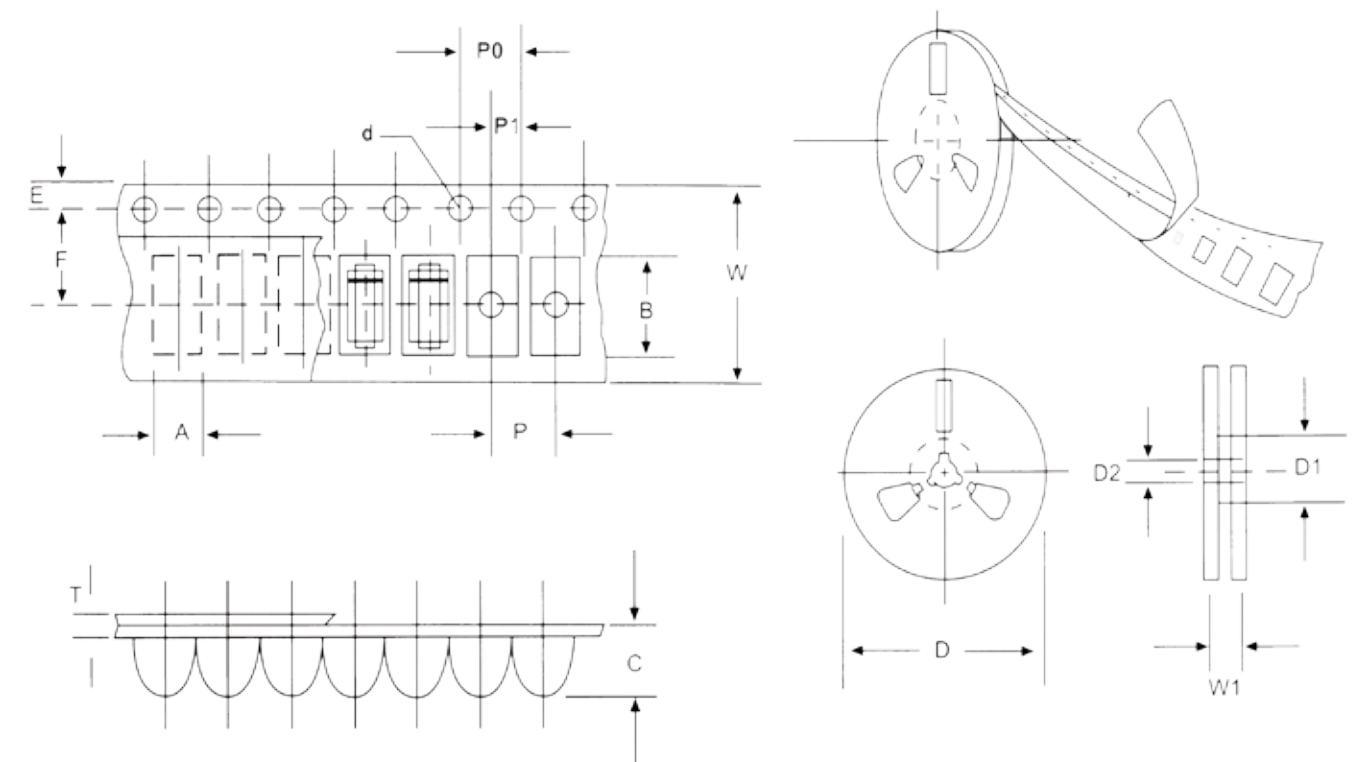
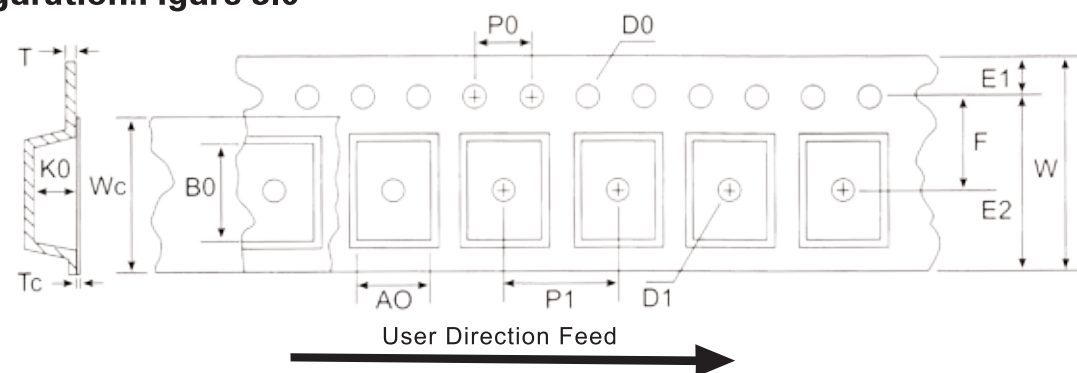


FIG:CONFIGURATION OF AXIAL TAPING

ITEM	SYMBOL	SPECIFICATIONS(mm)	SPECIFICATIONS(inch)
Carrier width	A	3.2max.	0.126max.
Carrier width	B	7.8max.	0.307max.
Carrier depth	C	4.5max.	0.177max.
Sprocket hole	d	1.5±1.0	0.059±0.004
Reel outside diameter	D	178±2.0	7.0±0.79
Reel inner diameter	D1	50min	1.969max.
Feed hole diameter	D2	13.0±0.5	0.512±0.020
Sprocket hole position	E	1.75±0.1	0.069±0.004
Punch hole position	F	5.5±0.1	0.217±0.004
Punch hole pitch	P	4.0±0.1	0.157±0.004
Sprocket hole pitch	P0	4.0±0.1	0.157±0.004
Embossment center	P1	2.0±0.05	0.079±0.002
Total tape thickness	T	1.1max	0.043max.
Tape width	W	12.0±0.3	0.472±0.012
Reel width	W1	1.04max.	0.724max.

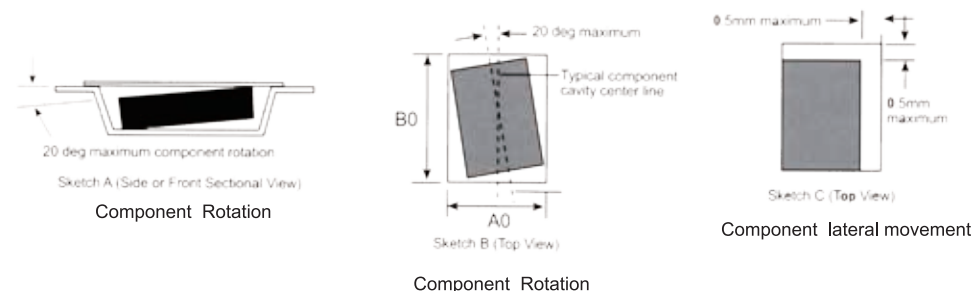
NOTE: 1. Devices are packed in accordance with EIA standard RS-481-A and specifications given above
Available only for MELF devices.
2. Available on 7 inch (1500 ct.) or 13 inch (5000 ct.) diameter reels.

SOD123 Embossed Carrier Tape Configuration:Figure 3.0

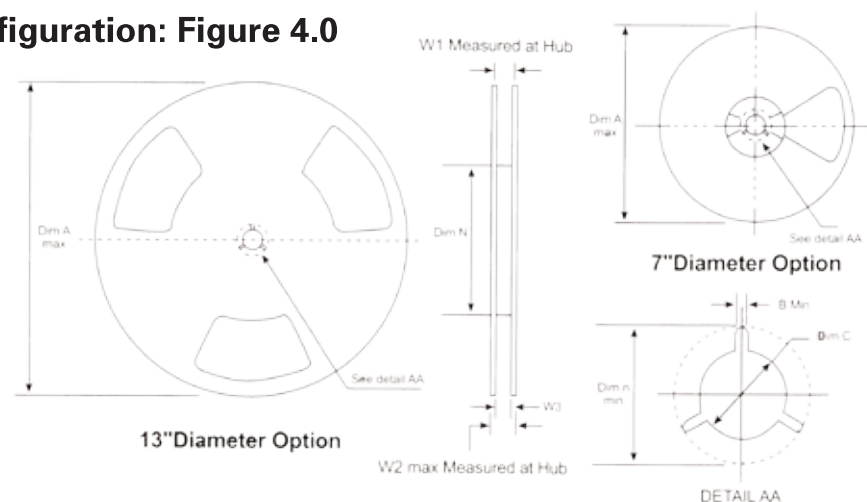


Dimensions are millimeter														
Pkg type	A0	B0	W	D0	D1	E1	E2	F	P1	P0	K0	T	Wc	Tc
SOD123 (8mm)	1.85 +/-0.10	3.94 +/-0.10	8.0 +/-0.3	1.50 +/-0.125	1.125 +/-0.125	1.75 +/-0.10	6.25 min	3.50 +/-0.05	4.0 +/-0.10	4.0 +/-0.10	1.50 +/-0.10	0.20 +/-0.020	5.2 +/-0.20	0.06 +/-0.02

Notes:A0,B0 and K0 dimensions are determined with respect to the EW Jedec RS-481 rotational and lateral movement requirements(see sketches A,B and C)

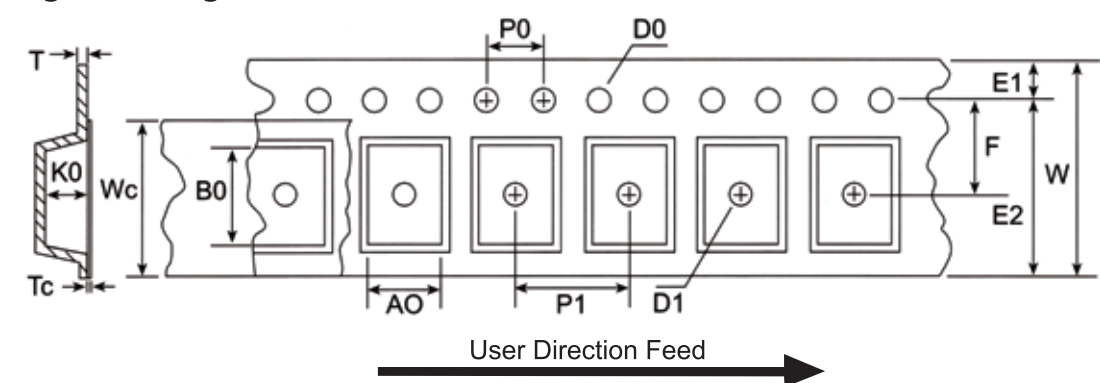


SOD123 Reel Configuration: Figure 4.0



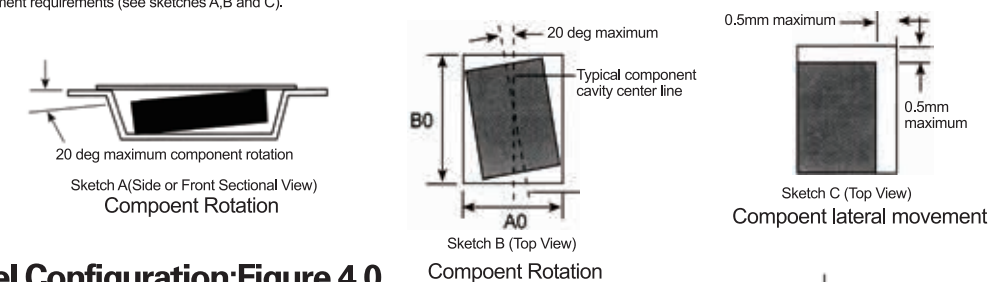
Dimensions are in inches and millimeter									
Type Size	Reel Option	Dim A	Dim B	Dim C	Dim D	Dim N	Dim W1	Dim W2	Dim W3(LSL-USL)
8mm	7\"Dia	7.00 177.8	0.059 1.5	512+0.020/-0.008 13+0.5/-0.2	0.795 20.0	2.165 55	0.331+0.059/-0.000 8.4+1.5/0	0.567 14.4	0.331-0.429 7.9-10.9
8mm	13\"Dia	13.00 330	0.059 1.5	512+0.020/-0.008 13+0.5/-0.2	0.795 20.0	0.059 1.5	0.331+0.059/-0.000 8.4+1.5/0	0.567 14.4	0.331-0.429 7.9-10.9

SOD323 Embossed Carrier Tape Configuration:Figure 3.0

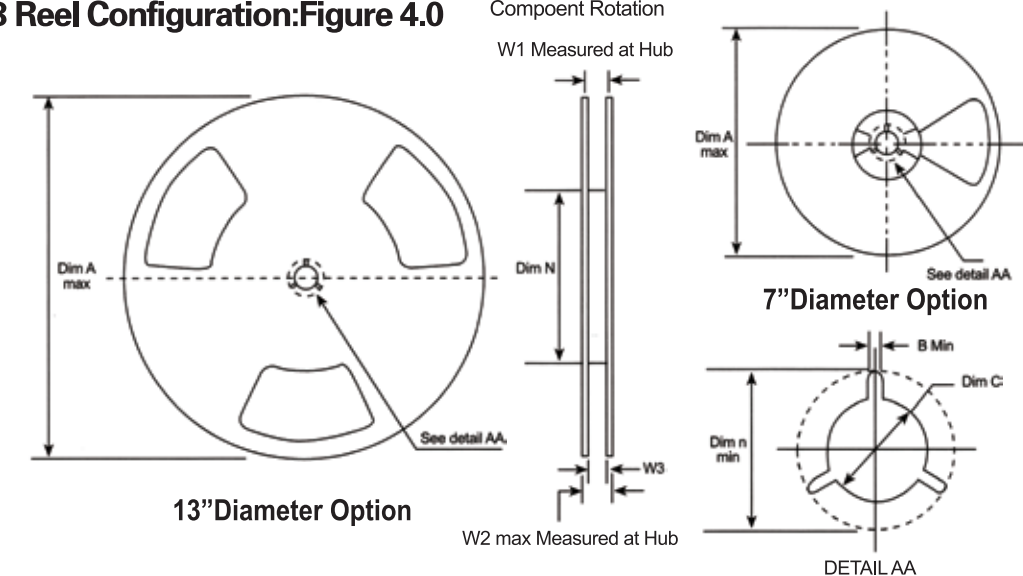


Dimensions are millimeter														
Pkg type	A0	B0	W	D0	D1	E1	E2	F	P1	P0	K0	T	Wc	Tc
SOD323 (8mm)	1.46 +/-0.10	2.9 +/-0.10	8.0 +/-0.3	1.50 +/-0.125	1.125 +/-0.125	1.75 +/-0.10	6.25 min	3.50 +/-0.05	4.0 +/-0.10	4.0 +/-0.10	1.25 +/-0.10	0.25 +/-0.020	5.2 +/-0.20	0.06 +/-0.02

Notes:A0,B0 and K0 dimensions are determined with respect to the EW Jedec RS-481 rotational and lateral movement requirements (see sketches A,B and C).

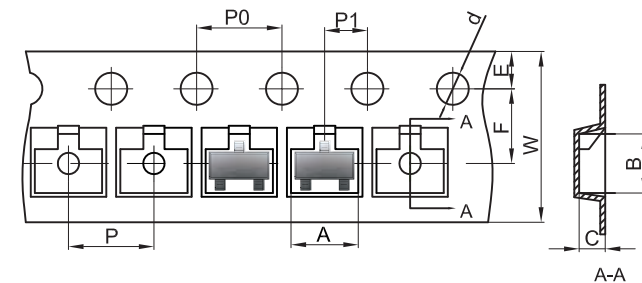


SOD323 Reel Configuration:Figure 4.0



Dimensions are in inches and millimeter									
Type Size	Reel Option	Dim A	Dim B	Dim C	Dim D	Dim N	Dim W1	Dim W2	Dim W3 (LSL-USL)
8mm	7\"Dia	7.00 177.8	0.059 1.5	512+0.020/-0.008 13+0.5/-0.2	0.795 20.0	2.165 55	0.331+0.059/-0.000 8.4+1.5/0	0.567 14.4	0.311-0.429 7.9-10.9
8mm	13\"Dia	13.00 330	0.059 1.5	512+0.020/-0.008 13+0.5/-0.2	0.795 20.0	4.00 100	0.331+0.059/-0.000 8.4+1.5/0	0.567 14.4	0.311-0.429 7.9-10.9

SOT-23 Embossed Carrier Tape



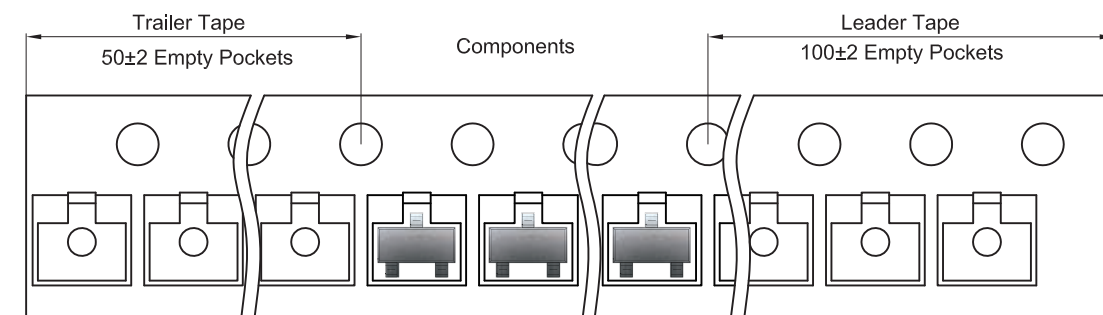
Packaging Description:

SOT-23 parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. These reeled parts in standard option are shipped with 3,000 units per 7" or 17.8cm diameter reel. The reels are clear in color and is made of polystyrene plastic (anti-static coated).

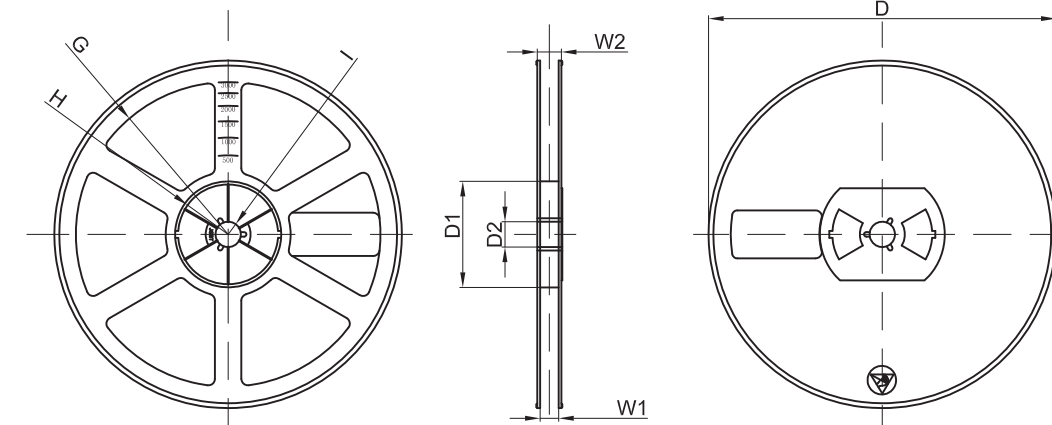
Dimensions are in millimeter

Pkg type	A	B	C	d	E	F	P0	P	P1	W
SOT-23	3.15	2.77	1.22	Ø1.50	1.75	3.50	4.00	4.00	2.00	8.00

SOT-23 Tape Leader and Trailer



SOT-23 Reel

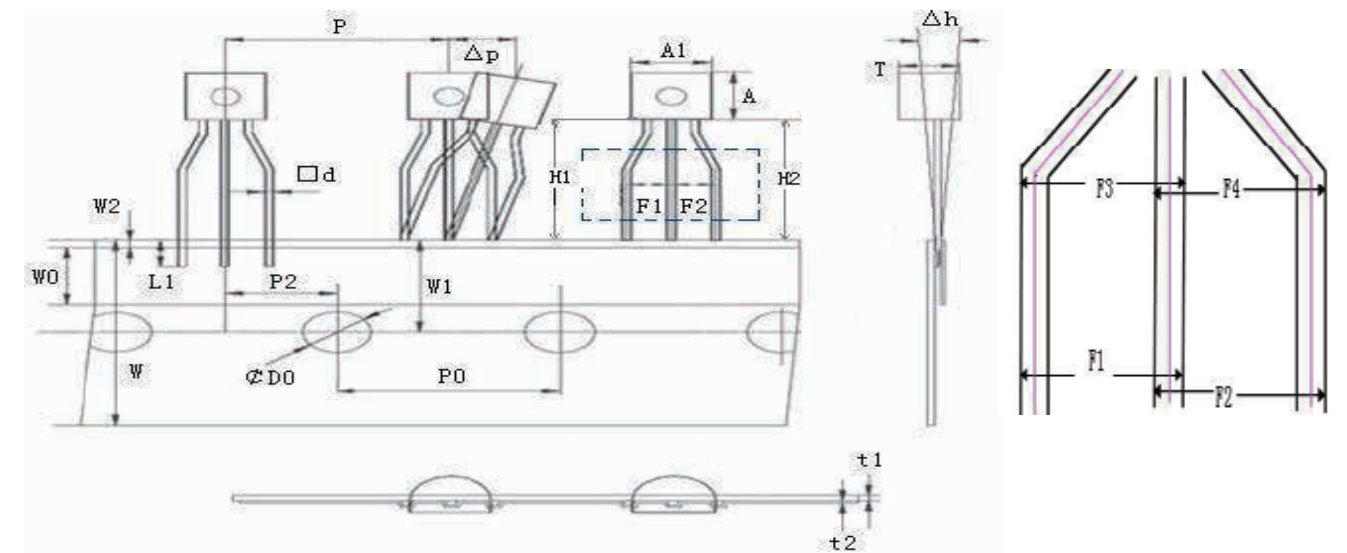


Dimensions are in millimeter

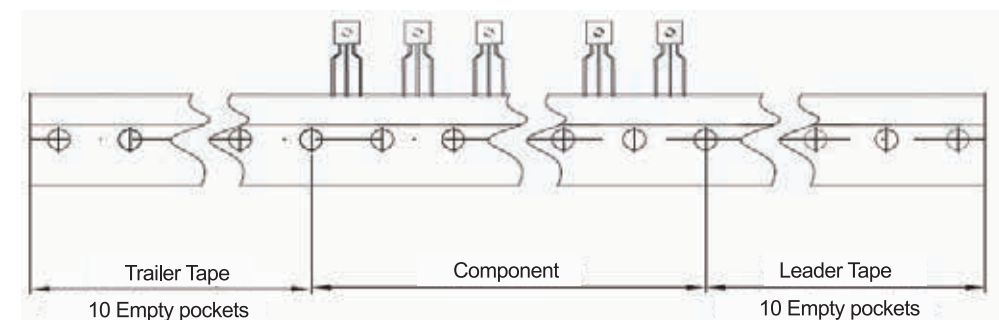
Reel Option	D	D1	D2	G	H	I	W1	W2
7" Dia	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30

REEL	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
3000 pcs	7 inch	45,000 pcs	203×203×195	180,000 pcs	438×438×230	

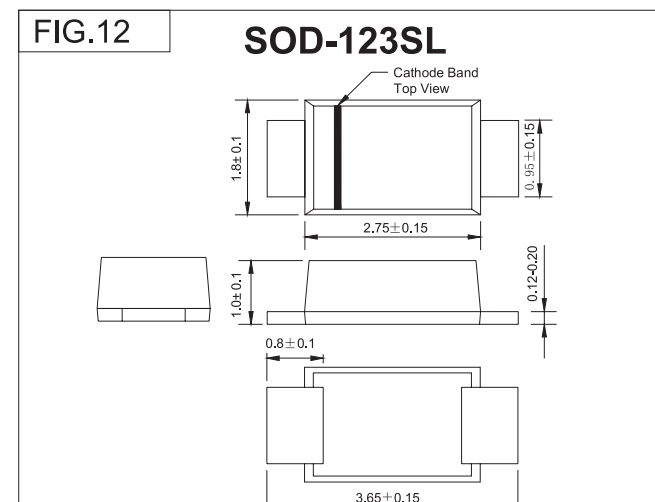
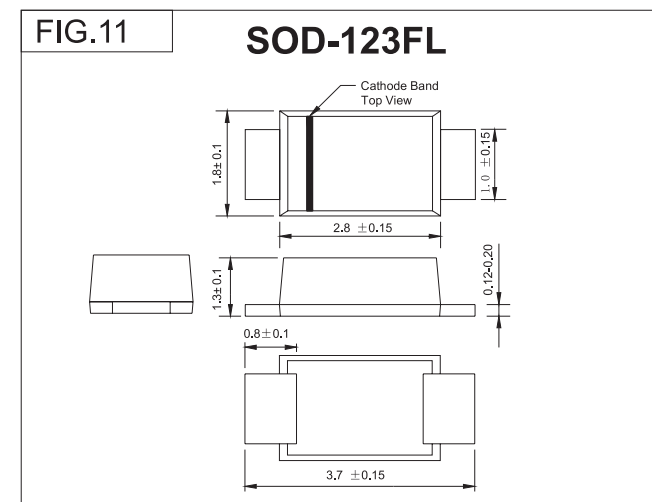
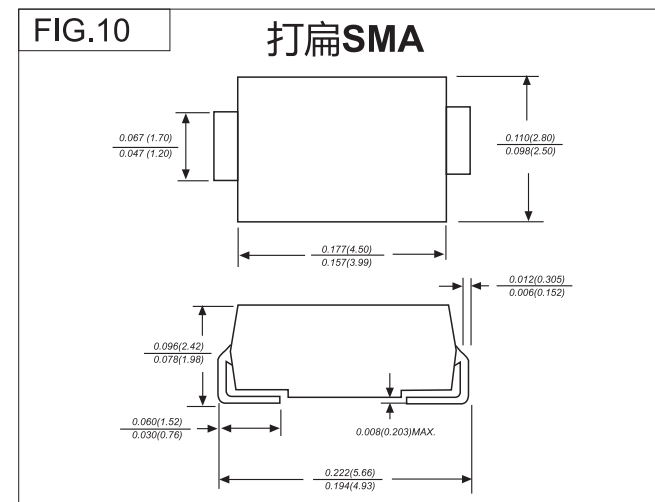
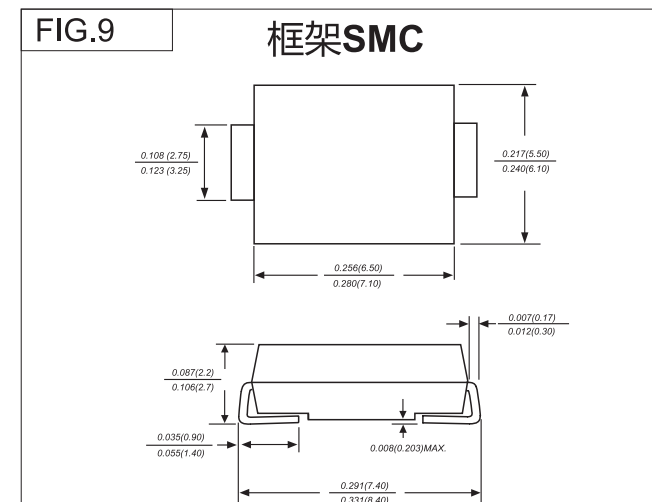
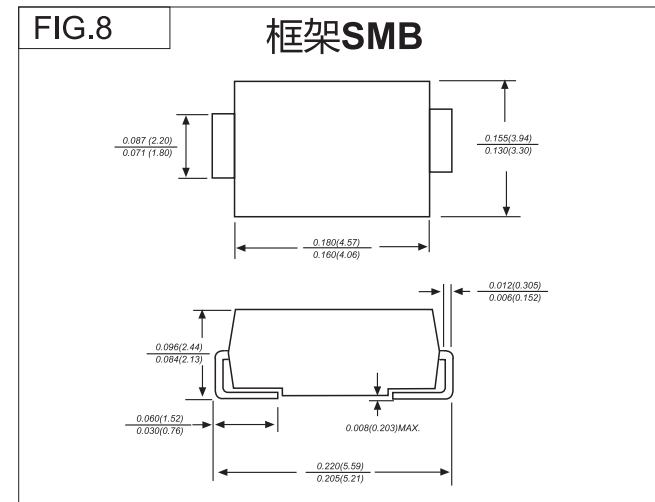
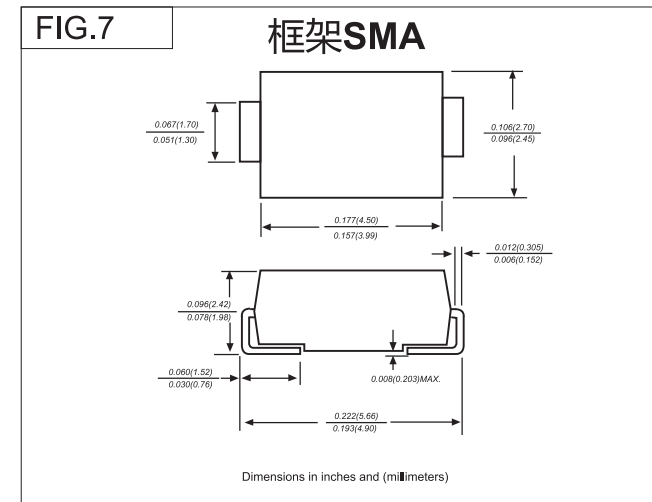
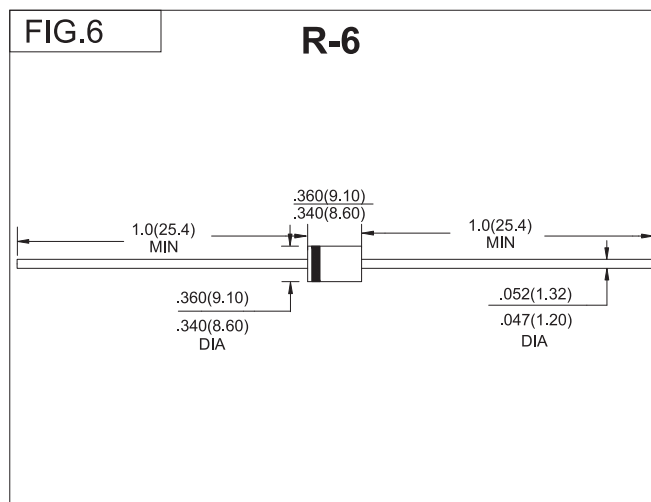
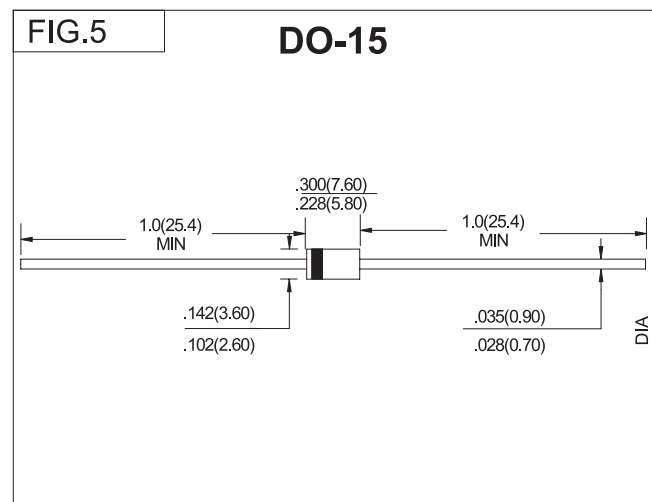
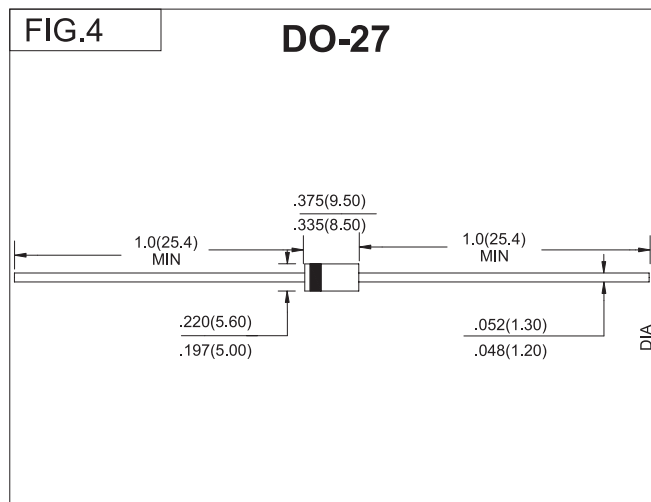
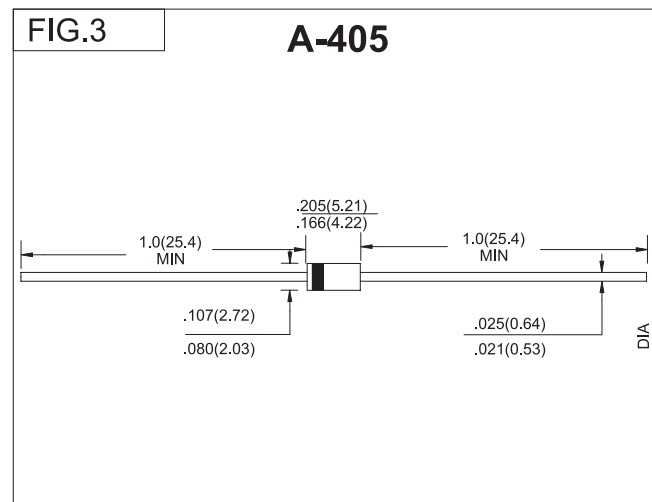
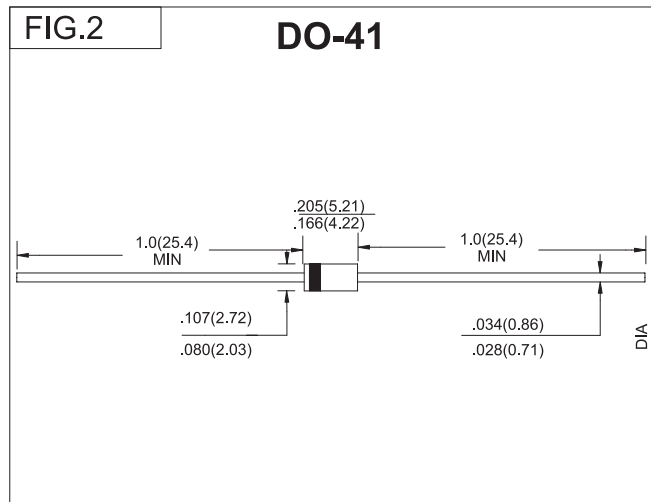
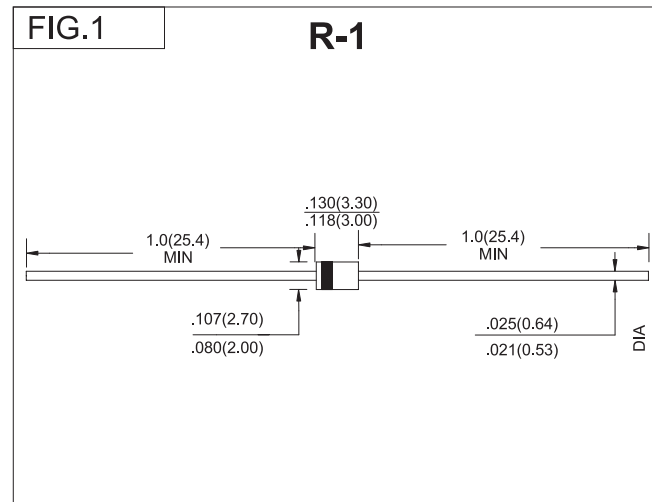
TO-92 Tape and Reel



Symbol	mm			Inches		
	Min	Nom	Max	Min	Nom	Max
A1	4.1	4.2	4.3	0.171	0.176	0.180
A	4.4	4.5	4.6	0.184	0.188	0.192
T	3.13	3.23	3.33	0.131	0.134	0.139
□d	0.36	0.45	0.56	0.015	0.018	0.022
L1	2.5	—	—	0.098	—	—
P	12.4	—	13	0.488	—	0.512
P0	12.5	12.7	12.9	0.492	0.5	0.508
P2	6.05	6.35	6.65	0.238	0.25	0.262
F1,F2	2.75	3.00	3.25			
F3,F4	2.75	3.00	3.25			
F1-F2	—	—	0.4			



Package	Box	Box Size(mm)	Carton	Carton Size(mm)
TO-92	2000PCS	343x158x42	20000PCS	470x358x180



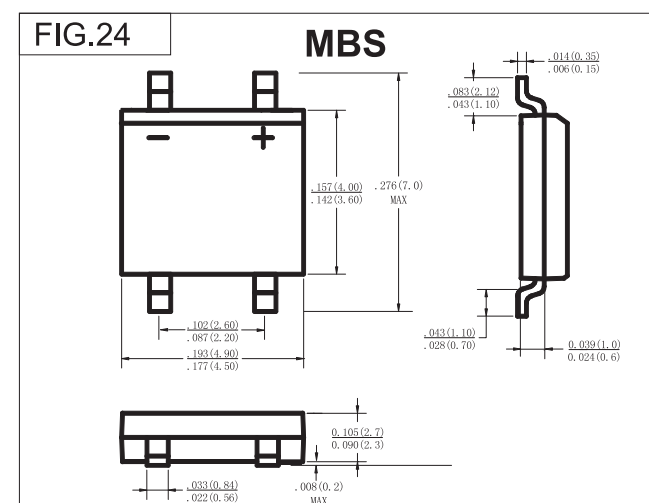
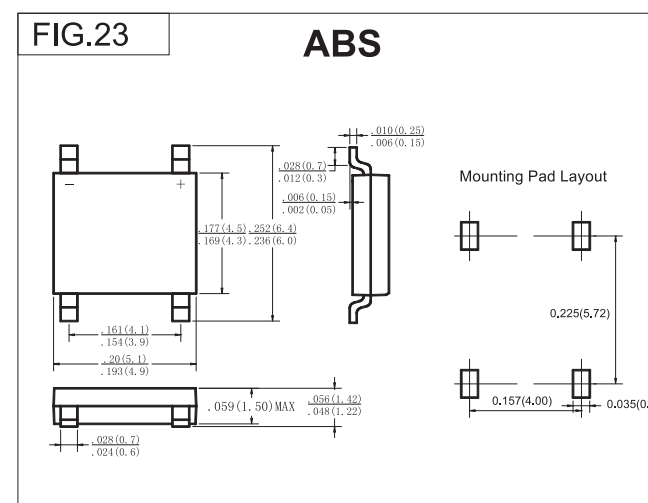
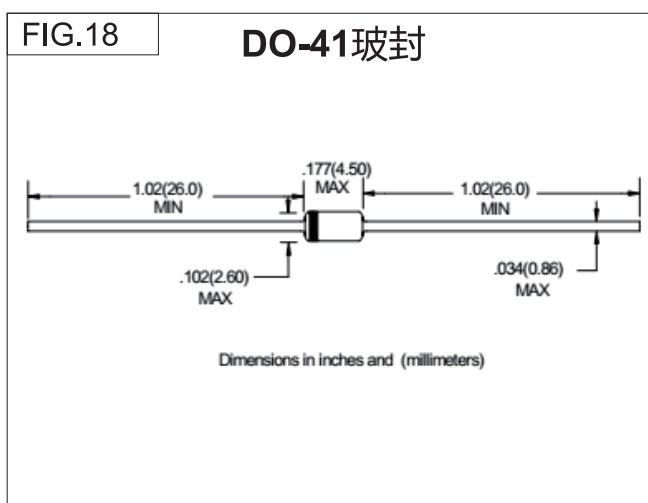
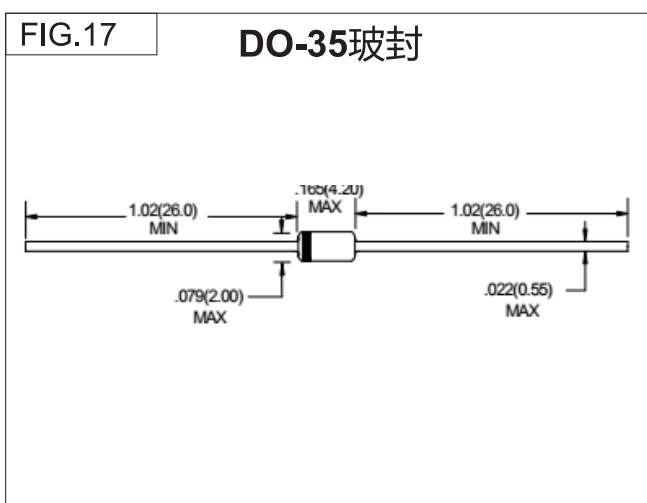
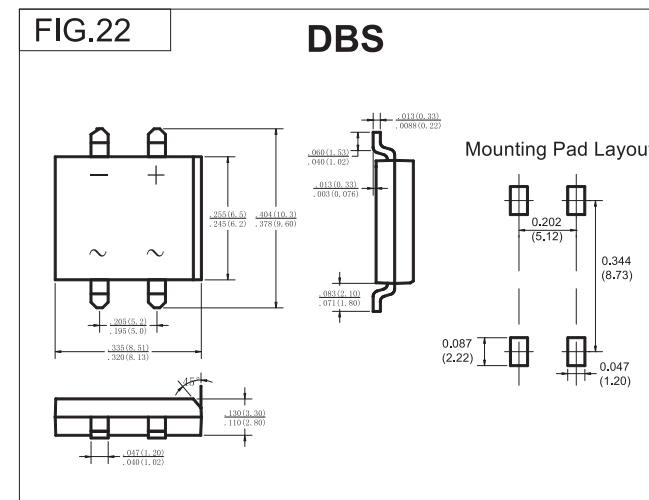
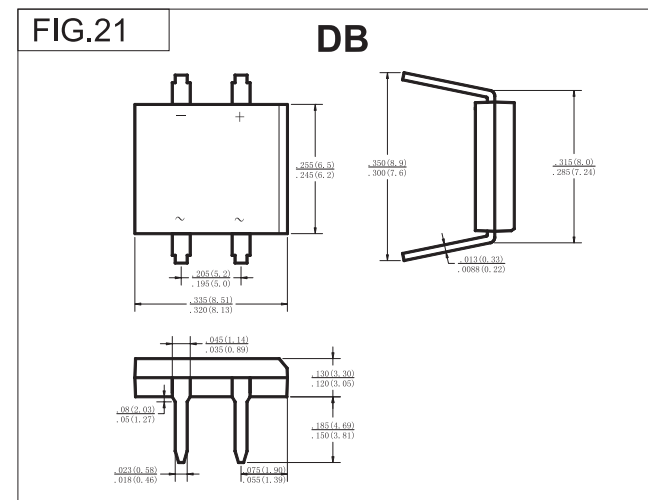
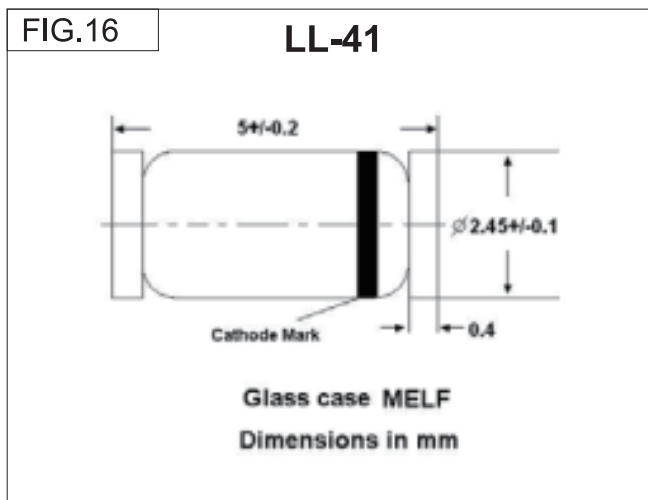
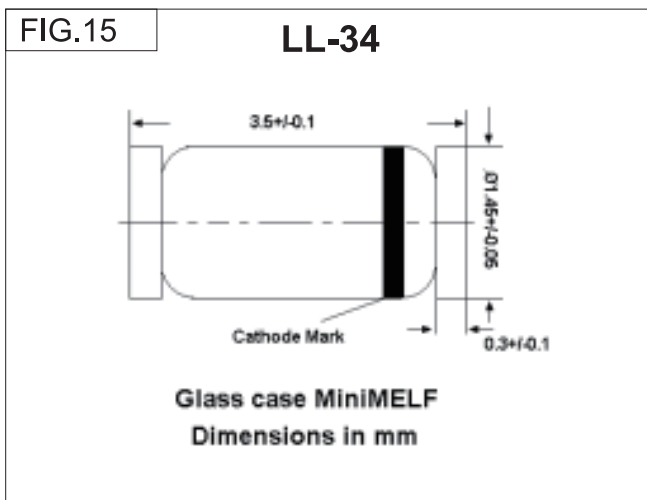
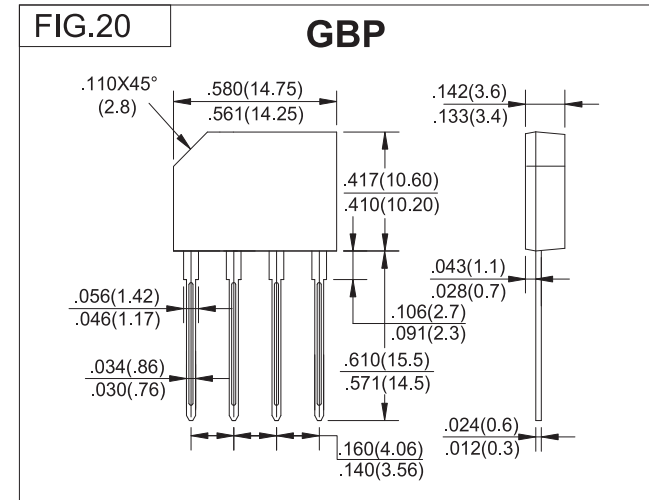
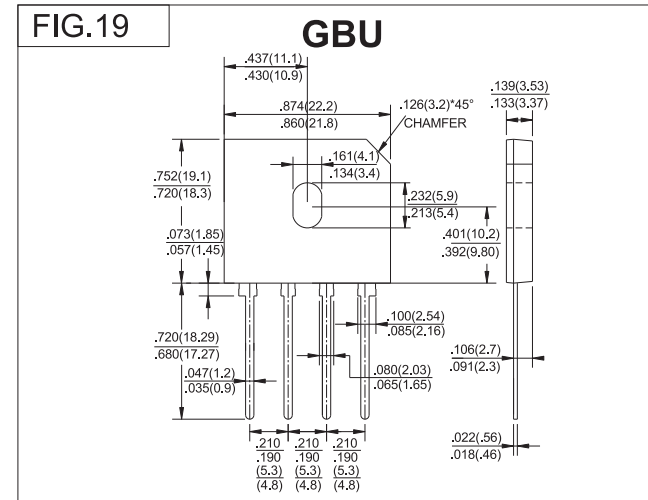
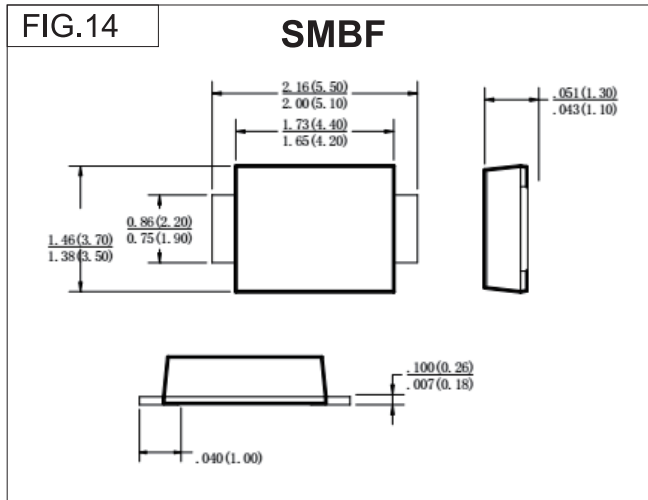
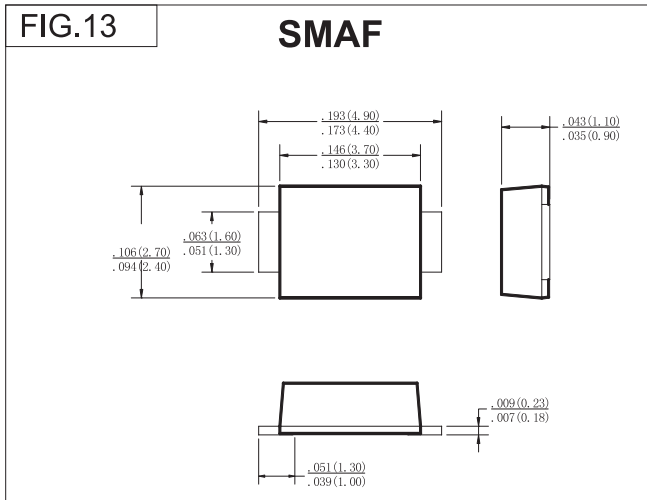


FIG.25

KBL

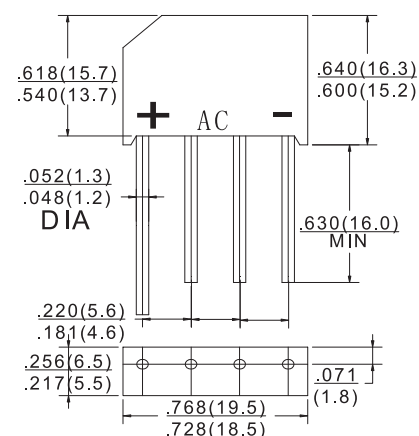


FIG.26

MBF

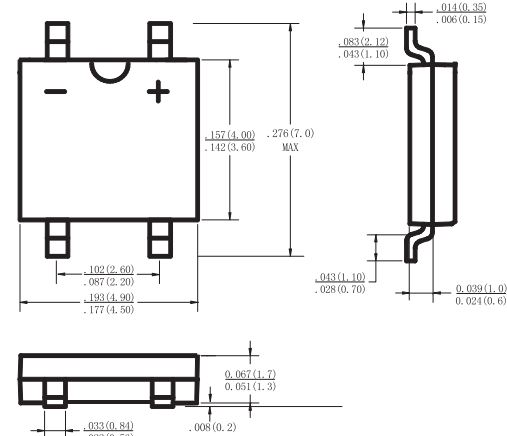


FIG.31

SOD323

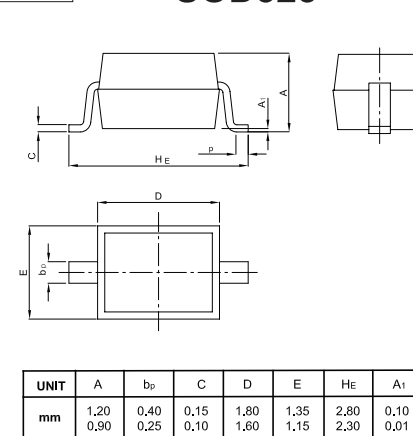


FIG.32

SOD523

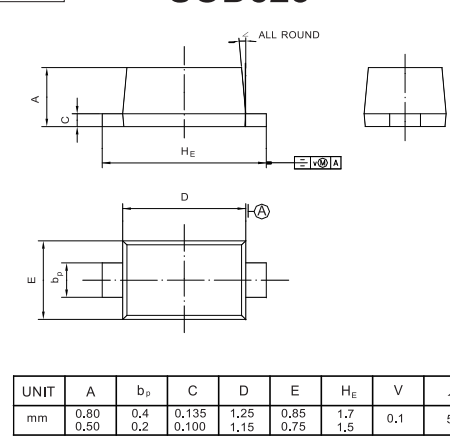


FIG.27

KBP

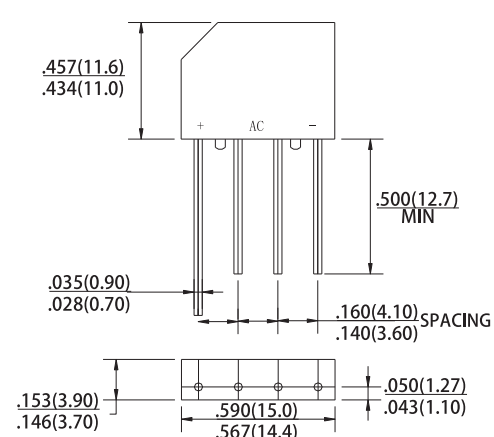


FIG.28

MBM

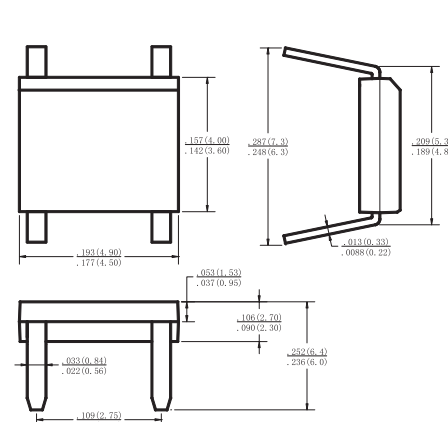


FIG.33

SOT-23

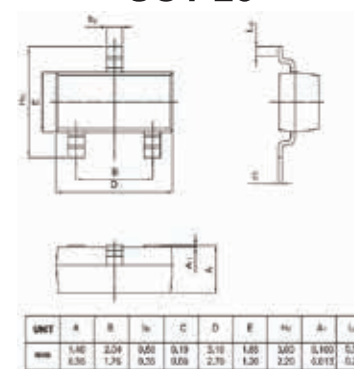


FIG.34

TO-92

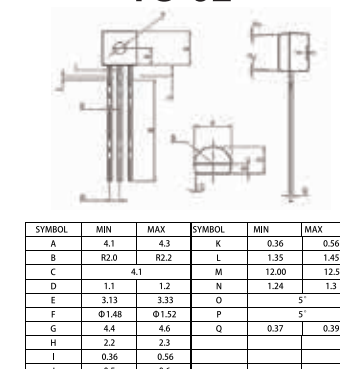


FIG.35

TO-126

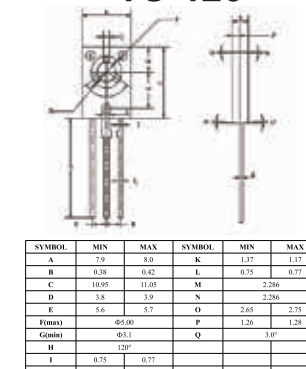


FIG.29

TO-220 AB

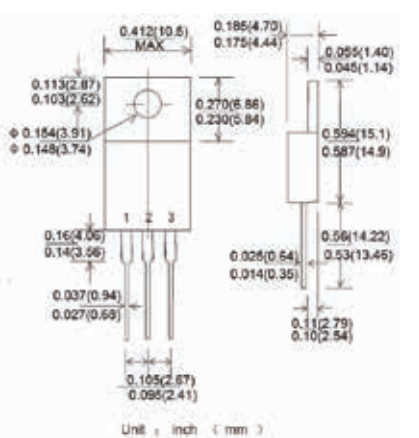


FIG.30

TO-220 AC

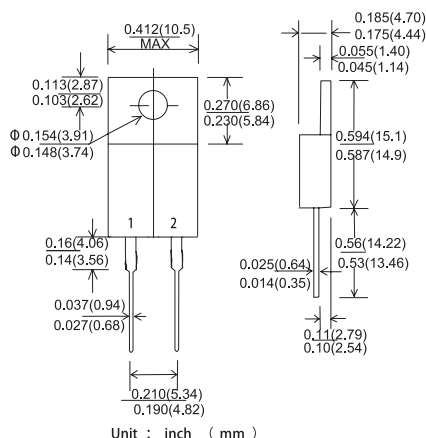


FIG.36

TO-251

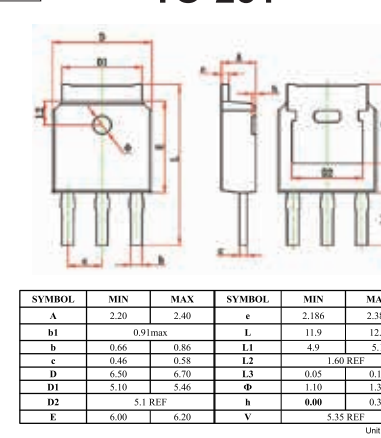


FIG.37

TO-252-2L

