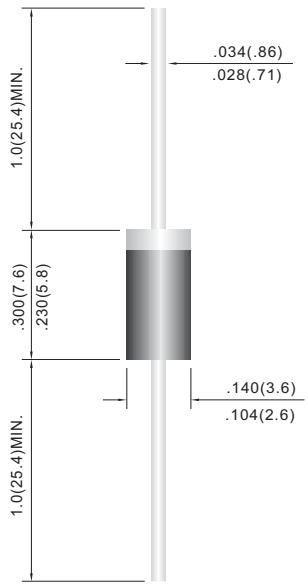
TABLE OF CONTENTS

SA5.0~SA220CA

GLASS PASSIVATED JUNCTION TRANSIENT VOLTAGE SUPPRESSOR

VOLTAGE 5.0 to 220 Volts **POWER** 500 Watts

DO-15 Unit: inch(mm)



FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- Glass passivated chip junction in DO-15 package
- 500W surge capability at 1ms
- Excellent clamping capability
- Low zener impedance
- Fast response time: typically less than 1.0 ps from 0 volts to BV min
- Typical IR less than 1μA above 10V
- High temperature soldering guaranteed: 260°C/10 seconds/.375" ,(9.5mm) lead length/5lbs., (2.3kg) tension
- Pb free product are available 99% Sn above can meet RoHS environment substance directive request

MECHANICAL DATA

- Case: JEDEC DO-15 molded plastic
- Terminals: Axial leads, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denoted cathode except Bipolar
- Mounting Position: Any
- Weight: 0.015 ounce, 0.4 gram

DEVICES FOR BIPOLAR APPLICAIONS

For Bidirectional use C or CA Suffix for types Electrical characteristics apply in both directions.

MAXIMUM RATINGS AND CHARACTERISTICS

Rating at 25°Cambient temperature unless otherwise specified. Resistive or inductive load, 60Hz.
For Capacitive load derate current by 20%.

RATING	SYMBOL	VALUE	UNITS
Peak Pulse Power Dissipation at T_A=25°C, T_P=1ms(Note 1, Fig.1)	P_{PPM}	Minimum Max 500	Watts
Peak Pulse Current of on 10/1000μs waveform (Note 1,Fig.3)	I_{PPM}	SEE TABLE 1	Amps
Steady State Power Dissipation at T_L=75°CLead Lengths .375",(9.5mm) (Note 2)	$P_{M(AV)}$	1.0	Watts
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load(JECED Method) (Note 3)	I_{FSM}	70	Amps
Operating and Storage Temperature Range	T_J, T_{STG}	-65 to +175	°C

NOTES:
1.Non-repetitive current pulse, per Fig. 3 and derated above T_A=25°C**per Fig. 2.**
2.Mounted on Copper Leaf area of 1.57in^2(40mm^2).
3.8.3ms single half sine-wave, duty cycle= 4 pulses per minutes maximum.

SA5.0~SA220CA

Part Number	V_{RWM}	V_{BR} @ I_T			I_R @ V_{RWM}		V_C @ I_{PP}		Marking Code	
		Min.	Max.	I_T	UNI-	BI-				
	V	V	V	mA	uA	uA	V	A	UNI-	BI-
SA5.0(C)	5.0	6.40	7.55	10	600	1200	9.6	52.3	SA5.0	SA5.0C
SA5.0(C)A	5.0	6.40	7.25	10	600	1200	9.2	54.3	SA5.0A	SA5.0CA
SA6.0(C)	6.0	6.67	8.45	10	600	1200	11.4	43.9	SA6.0	SA6.0
SA6.0(C)A	6.0	6.67	7.67	10	600	1200	10.3	48.5	SA6.0A	SA6.0CA
SA6.5(C)	6.5	7.22	9.14	10	400	800	12.3	40.7	SA6.5	SA6.5C
SA6.5(C)A	6.5	7.22	8.30	10	400	800	11.2	44.7	SA6.5A	SA6.5CA
SA7.0(C)	7.0	7.78	9.86	10	150	300	13.3	37.8	SA7.0	SA7.0C
SA7.0(C)A	7.0	7.78	8.95	10	150	300	12.0	41.7	SA7.0A	SA7.0CA
SA7.5(C)	7.5	8.33	10.67	1.0	50	100	14.3	35.0	SA7.5	SA7.5C
SA7.5(C)A	7.5	8.33	9.58	1.0	50	100	12.9	38.8	SA7.5A	SA7.5CA
SA8.0(C)	8.0	8.89	11.30	1.0	25	50	15.0	33.3	SA8.0	SA8.0C
SA8.0(C)A	8.0	8.89	10.23	1.0	25	50	13.6	36.7	SA8.0A	SA8.0CA
SA8.5(C)	8.5	9.44	11.92	1.0	10	20	15.9	31.4	SA8.5	SA8.5C
SA8.5(C)A	8.5	9.44	10.82	1.0	10	20	14.4	34.7	SA8.5A	SA8.5CA
SA9.0(C)	9.0	10.0	12.6	1.0	5	5	16.9	29.5	SA9.0	SA9.0C
SA9.0(C)A	9.0	10.0	11.5	1.0	5	5	15.4	32.5	SA9.0A	SA9.0CA
SA10(C)	10	11.1	14.1	1.0	3	3	18.8	26.6	SA10	SA10C
SA10(C)A	10	11.1	12.8	1.0	3	3	17.0	29.4	SA10A	SA10CA
SA11(C)	11	12.2	15.4	1.0	3	3	20.1	24.9	SA11	SA11C
SA11(C)A	11	12.2	14.0	1.0	3	3	18.2	27.4	SA11A	SA11CA
SA12(C)	12	13.3	16.9	1.0	3	3	22.0	22.7	SA12	SA12C
SA12(C)A	12	13.3	15.3	1.0	3	3	19.9	25.1	SA12A	SA12CA
SA13(C)	13	14.4	18.2	1.0	3	3	23.8	21.0	SA13	SA13C
SA13(C)A	13	14.4	16.5	1.0	3	3	21.5	23.2	SA13A	SA13CA
SA14(C)	14	15.6	19.8	1.0	3	3	25.8	19.4	SA14	SA14C
SA14(C)A	14	15.6	17.9	1.0	3	3	23.2	21.5	SA14A	SA14CA
SA15(C)	15	16.7	21.1	1.0	3	3	26.9	18.8	SA15	SA15C
SA15(C)A	15	16.7	19.2	1.0	3	3	24.4	20.6	SA15A	SA15CA
SA16(C)	16	17.8	22.6	1.0	3	3	28.8	17.6	SA16	SA16C
SA16(C)A	16	17.8	20.5	1.0	3	3	26.0	19.2	SA16A	SA16CA
SAJ17(C)	17	18.9	23.9	1.0	3	3	30.5	16.4	SAJ17	SAJ17C
SA17(C)A	17	18.9	21.7	1.0	3	3	27.6	16.1	SA17A	SA17CA
SA18(C)	18	20.0	25.3	1.0	3	3	32.2	15.5	SA18	SA18C
SA18(C)A	18	20.0	23.3	1.0	3	3	29.2	17.2	SA18A	SA18CA
SA20(C)	20	22.2	28.1	1.0	3	3	35.8	13.9	SA20	SA20C
SA20(C)A	20	22.2	25.5	1.0	3	3	32.4	15.4	SA20A	SA20CA
SA22(C)	22	24.4	30.9	1.0	3	3	39.4	12.7	SA22	SA22C
SA22(C)A	22	24.4	28.0	1.0	3	3	35.5	14.1	SA22A	SA22CA
SA24(C)	24	26.7	33.8	1.0	3	3	43.0	11.6	SA24	SA24C
SA24(C)A	24	26.7	30.7	1.0	3	3	38.9	12.8	SA24A	SA24CA
SA26(C)	26	28.9	36.6	1.0	3	3	46.6	10.7	SA26	SA26C
SA26(C)A	26	28.9	33.2	1.0	3	3	42.1	11.9	SA26A	SA26CA
SA28(C)	28	31.1	39.4	1.0	3	3	50.0	9.9	SA28	SA28C
SA28(C)A	28	31.1	35.8	1.0	3	3	45.4	11.0	SA28A	SA28CA
SA30(C)	30	33.3	42.2	1.0	3	3	53.5	9.3	SA30	SA30C
SA30(C)A	30	33.3	38.3	1.0	3	3	48.4	10.3	SA30A	SA30CA
SA33(C)	33	36.7	46.5	1.0	3	3	59.0	5.8	SA33	SA33C
SA33(C)A	33	36.7	42.2	1.0	3	3	53.3	9.4	SA33A	SA33CA
SA36(C)	36	40.0	50.7	1.0	3	3	64.3	7.8	SA36	SA36C
SA36(C)A	36	40.0	46.0	1.0	3	3	58.1	8.6	SA36A	SA36CA
SA40(C)	40	44.4	56.3	1.0	3	3	71.4	7.0	SA40	SA40C
SA40(C)A	40	44.4	51.1	1.0	3	3	64.5	7.8	SA40A	SA40CA

SA5.0~SA220CA

Part Number	V_{RWM}	V_{BR} @ I_T			I_R @ V_{RWM}		V_C @ I_{PP}		Marking Code	
		Min.	Max.	I_T	UNI-	BI-				
	V	V	V	mA	uA	uA	V	A	UNI-	BI-
SA43(C)	43	47.8	60.5	1.0	3	3	76.7	6.5	SA43	SA43C
SA43(C)A	43	47.8	54.9	1.0	3	3	69.4	7.2	SA43A	SA43CA
SA45(C)	45	50.0	63.3	1.0	3	3	80.3	6.2	SA45	SA45C
SA45(C)A	45	50.0	57.5	1.0	3	3	72.7	6.9	SA45A	SA45CA
SA48(C)	48	53.3	67.5	1.0	3	3	85.5	5.8	SA48	SA48C
SA48(C)A	48	53.3	61.3	1.0	3	3	77.4	6.5	SA48A	SA48CA
SA51(C)	51	56.7	71.8	1.0	3	3	91.1	5.5	SA51	SA51C
SA51(C)A	51	56.7	65.2	1.0	3	3	82.4	6.1	SA51A	SA51CA
SA54(C)	54	60.0	76.0	1.0	3	3	96.3	5.2	SA54	SA54C
SA54(C)A	54	60.0	69.0	1.0	3	3	87.1	5.7	SA54A	SA54CA
SA58(C)	58	64.4	81.6	1.0	3	3	103	4.9	SA58	SA58C
SA58(C)A	58	64.4	74.1	1.0	3	3	93.6	5.3	SA58A	SA58CA
SA60(C)	60	66.7	84.5	1.0	3	3	107	4.7	SA60	SA60C
SA60(C)A	60	66.7	76.7	1.0	3	3	96.8	5.2	SA60A	SA60CA
SA64(C)	64	71.1	90.1	1.0	3	3	114	4.4	SA64	SA64C
SA64(C)A	64	71.1	81.8	1.0	3	3	103	4.9	SA64A	SA64CA
SA70(C)	70	77.8	98.6	1.0	3	3	125	4.0	SA70	SA70C
SA70(C)A	70	77.8	89.5	1.0	3	3	113	4.4	SA70A	SA70CA
SA75(C)	75	83.3	105.7	1.0	3	3	134	3.7	SA75	SA75C
SA75(C)A	75	83.3	95.8	1.0	3	3	121	4.1	SA75A	SA75CA
SA78(C)	78	86.7	109.8	1.0	3	3	139	3.6	SA78	SA78C
SA78(C)A	78	86.7	99.7	1.0	3	3	126	4.0	SA78A	SA78CA
SA85(C)	85	94.4	119.2	1.0	3	3	151	3.3	SA85	SA85C
SA85(C)A	85	94.4	108.2	1.0	3	3	137	3.6	SA85A	SA85CA
SA90(C)	90	100	126.5	1.0	3	3	160	3.1	SA90	SA90C
SA90(C)A	90	100	115.5	1.0	3	3	146	3.4	SA90A	SA90CA
SA100(C)	100	111	141.0	1.0	3	3	179	2.8	SA100	SA100C
SA100(C)A	100	111	128.0	1.0	3	3	162	3.1	SA100A	SA100CA
SA110(C)	110	122	154.5	1.0	3	3	196	2.6	SA110	SA110C
SA110(C)A	110	122	140.5	1.0	3	3	177	2.8	SA110A	SA110CA
SA120(C)	120	133	169.0	1.0	3	3	214	2.3	SA120	SA120C
SA120(C)A	120	133	153.0	1.0	3	3	193	2.0	SA120A	SA120CA
SA130(C)	130	144	182.5	1.0	3	3	231	2.2	SA130	SA130C
SA130(C)A	130	144	165.5	1.0	3	3	209	2.4	SA130A	SA130CA
SA150(C)	150	167	211.5	1.0	3	3	268	1.9	SA150	SA150C
SA150(C)A	150	167	192.5	1.0	3	3	243	2.1	SA150A	SA150CA
SA160(C)	160	178	226.0	1.0	3	3	287	1.7	SA160	SA160C
SA160(C)A	160	178	205.0	1.0	3	3	259	1.9	SA160A	SA160CA
SA170(C)	170	189	239.5	1.0	3	3	304	1.6	SA170	SA170C
SA170(C)A	170	189	217.5	1.0	3	3	275	1.8	SA170A	SA170CA
SA180(C)	180	198	253.8	1.0	3	3	322	1.6	SA180	SA180C
SA180(C)A	180	198	230.4	1.0	3	3	292	1.7	SA180A	SA180CA
SA190(C)	190	209	267.9	1.0	3	3	340	1.5	SA190	SA190C
SA190(C)A	190	209	243.2	1.0	3	3	308	1.6	SA190A	SA190CA
SA200(C)	200	220	282.0	1.0	3	3	358	1.4	SA200	SA200C
SA200(C)A	200	220	256.0	1.0	3	3	324	1.5	SA200A	SA200CA
SA210(C)	210	231	296.1	1.0	3	3	376	1.3	SA210	SA210C
SA210(C)A	210	231	268.8	1.0	3	3	340	1.5	SA210A	SA210CA
SA220(C)	220	242	310.2	1.0	3	3	394	1.3	SA220	SA220C
SA220(C)A	220	242	281.6	1.0	3	3	356	1.4	SA220A	SA220CA

SA5.0~SA220CA

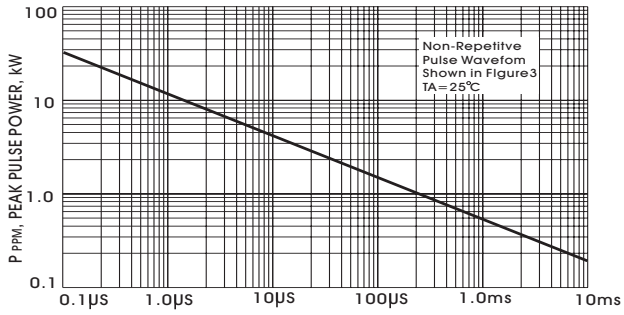


FIGURE 1-PEAK PULSE POWER RATING VERSUS PULSE TIME CURVE

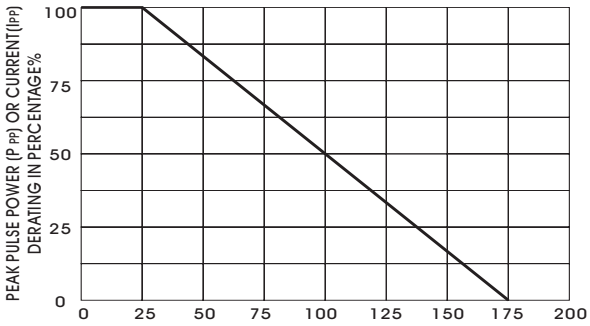


FIGURE2-PULSE DERATING CURVE

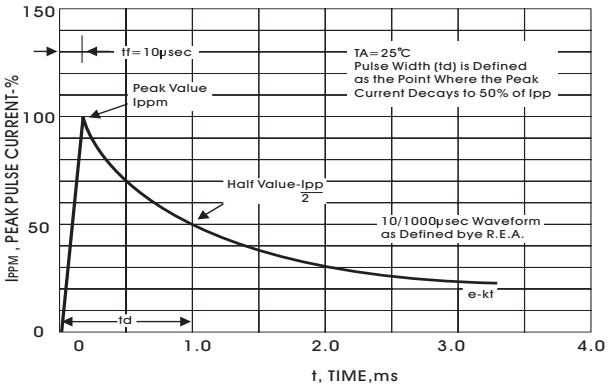


FIGURE 3-PULSE WAVEFORM

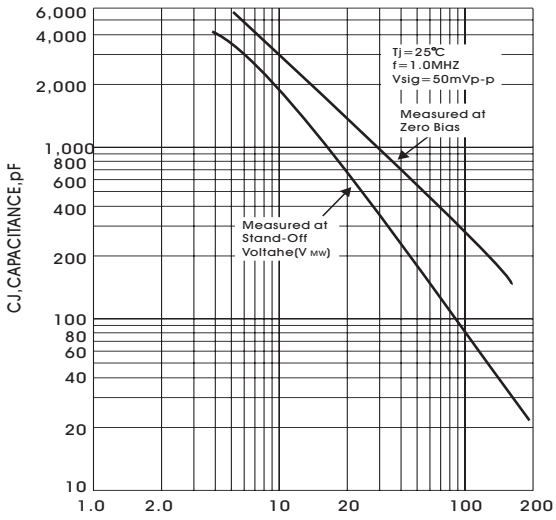


FIG.4-TYPICAL JUNCTION CAPACITANCE UNIDIRECTIONAL

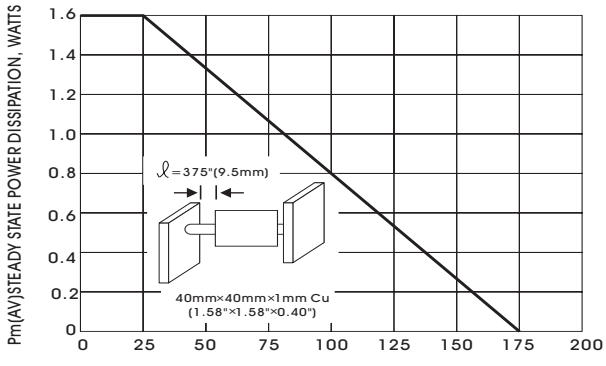


FIG.5-STEADY STATE POWER DERATING CURVE

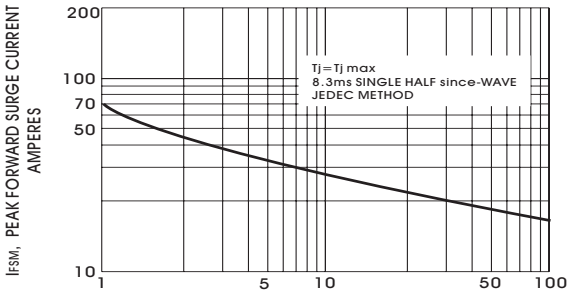
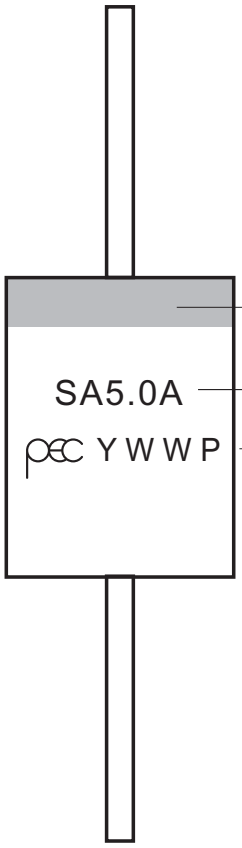


FIG.6-MAXIMUM NON-REPETITEVE PEAK FORWARD SURGE CURRENT UNIDIRECTIONAL

LEGAL STATEMENT

2. MARKING



Cathode band

1st line: Marking code

2nd line: PanJit logo

Y- Last digit of calendar year

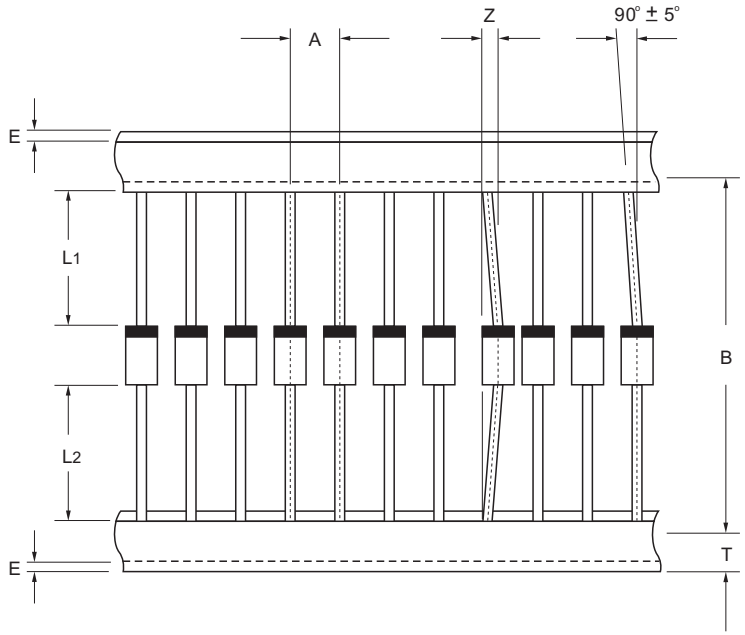
WW- Weekly

P- Production line

3. TAPING

Axial lead devices are packed in accordance with EIA standard RS-296-E and specifications given below.

COMPONENT OUTLINE	COMPONENT PITCH A ± 0.5mm	INTER TAPE PITCH B ± 1.0mm	CUMULATIVE PITCH TOLERANCE
DO-15	5.0mm	52.0mm	1.0mm/20pitch

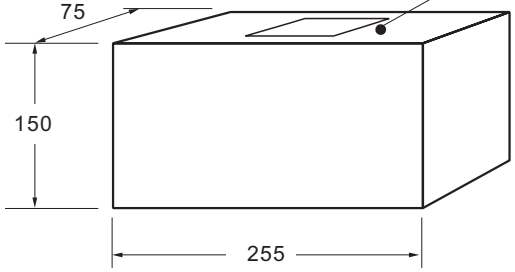


ITEM	SYMBOL	SPECIFICATIONS(mm)	SPECIFICATIONS(inch)
Component alignment	Z	1.2max	0.048max
Tape width	T	6.0±0.4	0.236±0.016
Exposed adhesive	E	0.8max	0.032max
Body eccentricity	L1-L2	1.0max	0.040max

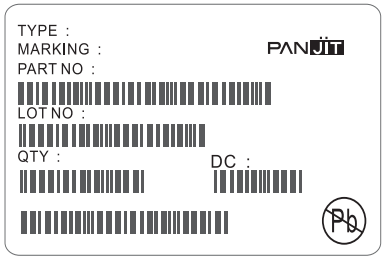
NOTES: Each component lead shall be sandwiched between tapes for a minimum of 3.2mm (0.126")

4. PACKING

AMMUNITION PACKING



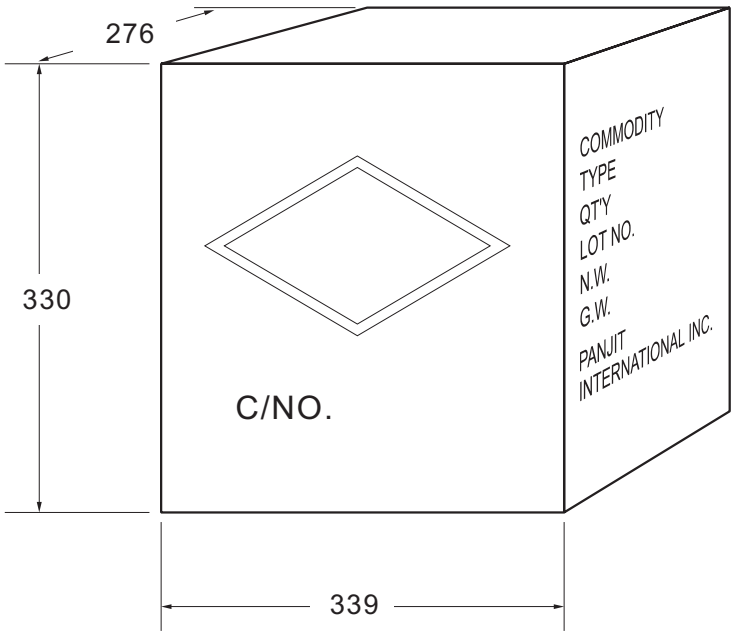
LABEL TYPE



Box Dimensions :mm

Quantity per Box: 3,000 pcs

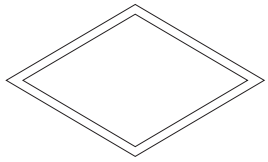
CARTON



Box Dimensions :mm

Quantity per Box: 24,000 pcs

SHIPPING MARK



C/NO.

PRODUCT COUNTRY

SIDE MARK

COMMODITY:
TYPE:
Q'TY:
LOT NO.
N.W.
G.W.

PANJIT
INTERNATIONAL INC.

Bulk Packing

PACKAGE	INNER SIZE (m/m)	BOX (EA)	CARTON SIZE (m/m)	CARTON (EA)	APPROX. GROSS WEIGHT (Kg)
Bulk Packing					
A-405	198 x 84 x 20	10,000	459 x 214 x 256	50,000	18.2
AG / RB-20 / WOB	258x190x77	1,000	395x270x400	10,000	17.0
AM	260 x 190 x 80	1,000	400 x 273 x 415	10,000	15
CM / KBPC	193 x 193 x 46	50	405 x 210 x 265	500	18
CMW / KBPC-W	193 x 193 x 46	50	405 x 210 x 265	500	16.5
KBPC-P / CP-15/25/35/50	193 x 193 x 46	50	405 x 210 x 265	500	14.5
KBPC-PW / CPW-15/25/35/50	193 x 193 x 46	50	405 x 210 x 265	500	13
CP-3 / 6	260 x 190 x 80	400	400 x 273 x 415	4,000	8.5
CP-8 / 10	260 x 190 x 80	250	400 x 273 x 415	2,500	14
DIP	-	-	495 x 214 x 256	12,000	8.8
DO-15	200 x 85 x 25	1,000	459 x 214 x 256	40,000	17
DO-201AD	200 x 85 x 40	500	495 x 214 x 256	12,500	15.8
DO-201AE	200 x 85 x 40	500	495 x 214 x 256	12,500	15.8
DO-34	96 x 80 x 42	2,000	410 x 335 x 265	120,000	12
DO-35	96 x 80 x 42	2,000	410 x 335 x 265	120,000	13.8
DO-41	240 x 100 x 90	5,000	410 x 335 x 265	60,000	20
DO-41G	96 x 80 x 42	1,000	410 x 335 x 265	60,000	20
FL	270 x 225 x 50	500	463 x 283 x 185	3,000	18.2
GBJ	352 x 337 x 44	600	375 x 360 x 213	2,400	25.4
GBL	350 x 337 x 44	960	375 x 360 x 213	3,840	13.1
GBP	350 x 337 x 44	1,120	375 x 360 x 213	4,480	10.7
GBPC	195 x 195 x 40	50	460 x 215 x 260	500	14.5
GBPCW	195 x 195 x 40	50	460 x 215 x 260	500	13
GBU	350 x 337 x 44	800	375 x 360 x 213	3,200	17
GL	195 x 195 x 40	80	460 x 215 x 260	800	11
GPJ	500 x 150 x 145	750	572 x 306 x 218	1,500	17
KBJ	219 x 177 x 44	200	367 x 232 x 250	2,000	16.3
KBPM	490 x 150 x 110	1,200	510 x 335 x 240	4,800	19
KBU	270 x 225 x 50	200	463 x 283 x 185	1,200	10
MDI	350 x 337 x 44	6,000	375 x 360 x 390	48,000	14.4
P-600	208 x 90 x 83	500	495 x 214 x 256	5,000	11.9
R-1	198 x 84 x 20	1,000	495 x 214 x 256	50,000	18.2
SDIP	-	-	495 x 214 x 256	24,000	16.8
TO / ITO-220	555 x 145 x 95	2,000	572 x 306 x 218	8,000	19
TO-251AB	560 x 210 x 79	8,400	572 x 306 x 218	33,600	22
TO-247AD	-	-	536 x 243 x 100	1,500	13.2
KBP	258x190x77	1,000	395x270x400	10,000	18.0
KBL	230x147x50	200	460x245x275	3,000	17.25
K3 / K6	210x115x90	200	600x235x198	2,000	7.3/8.8
K8	210x115x90	200	600x235x198	2,000	13.8
K10/K15/K25/K35/K50M	193x193x46	50	405x210x265	500	17.0
K10/K15/K25/K35/K50P	193x193x46	50	405x210x265	500	17.0
K10/K15/K25/K35/K50W	193x193x46	50	405x210x265	500	17.0

Reel Packing

PACKAGE	REEL	COMPONENT SPACE	TAPE SPACE	REEL DIA	CARTON SIZE	CARTON	APPROX. GROSS WEIGHT
	(pcs)	(m/m)	(m/m)	(m/m)	(m/m)	(EA)	(Kg)
Reel Packing							
A-405	5,000	5	52	330	340 x 340 x 410	25,000	11.3
TO-263	800	16	24	330	375 x360 x 390	6,400	15
DO-15	4,000	5	52	330	340 x 340 x 410	20,000	11
DO-201AD	1,250	10	52	330	340 x 340 x 410	6,250	9.2
DO-201AE	1,250	10	52	330	340 x 340 x 410	6,250	9.2
DO-34	10,000	5	52	360	360 x 360 x 395	50,000	9.5
DO-35	10,000	5	52	360	360 x 360 x 395	50,000	12
DO-41	5,000	5	52	330	360 x 360 x 395	25,000	13
DO-41G	5,000	5	52	360	360 x 360 x 395	25,000	13
TO-252	3,000	8	16	330	375 x 360 x 390	42,000	20.2
MDI	3,000	8	12	330	375 x360 x 390	48,000	14.4
QUADRO-MELF	2,500	4	-	178	385 x 380 x 260	200,000	13.5
MELF/DL-41	5,000	4	-	330	350 x 350 x 300	100,000	14
MICRO-MELF	2,500	4	-	178	385 x 380 x 260	200,000	13.5
MINI-MELF	10,000 / 2,500	4	-	330 / 178	360 x 360 x 395 / 385 x 380 x 260	200,000	14.0 / 13.5
P-600	800	10	52	330	340 x 340 x 410	4,000	11
QFN 1.6 x 1.6	4,000	4	8	178	390 x 240 x 420	200,000	7.8
R-1	5,000	5	52	330	340 x 340 x 410	25,000	6.3
SDIP	1,500	12	16	330	375 x360 x 390	21,000	16.3
SMA	7,500 / 1,800	4	12	330 / 178	375 x360 x 390 / 390 x 240 x 420	120,000 / 72,000	17.5 / 10
SMB	3,000 / 500	8	12	330 / 178	375 x360 x 390 / 390 x 240 x 420	48,000 / 20,000	13.6 / 7.5
SMC	3,000 / 500	12	16	330 / 178	375 x360 x 390 / 390 x 240 x 420	42,000 / 15,000	6.2 / 7.3
SOD-123	10,000 / 3,000	4	8	330 / 178	375 x 360 x 213 / 390 x 270 x 400	120,000 / 240,000	6.4 / 9.4
SOD-123FL	10,000 / 3,000	4	8	330 / 178	375 x 360 x 213 / 390 x 270 x 400	120,000 / 240,000	6.4 / 9.4
SOD-323	12,000 / 5,000	4	8	330 / 178	375 x 360 x 213 / 390 x 270 x 400	144,000 / 400,000	10 / 15.2
SOT-23	12,000 / 3,000	4	8	330 / 178	375 x 360 x 213 / 390 x 270 x 400	144,000 / 240,000	6.4 / 9.4
SOT-323	12,000 / 3,000	4	8	330 / 178	375 x 360 x 213 / 390 x 270 x 400	144,000 / 240,000	6.4 / 9.4
SOT-363	10,000 / 3,000	4	8	330 / 178	735 x 365 x 292 / 390 x 240 x 420	300,000 / 150,000	15.66 / 7.0
SOT-353	10,000 / 3,000	4	8	330 / 178	735 x 365 x 292 / 390 x 240 x 420	300,000 / 150,000	15.66 / 7.0
TO-92	2,000	-	-	335	390 x 390 x 280	8,000	6.067
SOD-523	12,000 / 5,000	4	8	330 / 178	375 x 360 x 213 / 390 x 270 x 400	144,000 / 400,000	10 / 15.2
QFN 2.0 x 2.0	5,000 / 3,000 / 1,000	4	8	330 / 178 / 178	553 x 365 x 358 / 333 x 240 x 257 / 333 x 240 x 257	45,000 / 39,000 / 13,000	4.5 / 3.0 / 2.5
SOT23-6L	3,000 / 2,500 / 1,000	4	8	330 / 178 / 178	553 x 365 x 358 / 333 x 240 x 257 / 333 x 240 x 257	39,000 / 32,500 / 13,000	3.0 / 3.0 / 2.5
SOIC-08	3,000 / 1,500 / 1,000	4	8	330 / 330 / 178	553 x 365 x 358 / 553 x 365 x 358 / 333 x 240 x 257	39,000 / 13,500 / 13,000	6.5 / 5.0 / 3.5

Ammunition Packing

PACKAGE	AMMO	COMPONENT SPACE	TAPE SPACE	BOX SIZE	CARTON SIZE	CARTON	APPROX. GROSS WEIGHT
	(pcs)	(m/m)	(m/m)	(m/m)	(m/m)	(EA)	(Kg)
Ammunition Packing							
A-405	5,000	5	26	255 x 50 x 150	339 x 276 x 330	60,000	16.0
A-405	5,000	5	52	255 x 75 x 150	339 x 276 x 330	40,000	16.0
DO-15	3,000	5	52	255 x 75 x 150	339 x 276 x 330	24,000	11.9
DO-201AD	1,250	10	52	255 x 75 x 150	339 x 276 x 330	10,000	14.0
DO-201AE	1,250	10	52	255 x 75 x 150	339 x 276 x 330	10,000	14.0
DO-34	5,000	5	26	248 x 80 x 48	410 x 335 x 265	150,000	15.5
DO-34	5,000	5	52	248 x 80 x 75	410 x 335 x 265	100,000	14.1
DO-35	5,000	5	26	248 x 80 x 48	410 x 335 x 265	150,000	20.0
DO-35	5,000	5	52	248 x 80 x 75	410 x 335 x 265	100,000	15.7
DO-41	5,000	5	52	255 x 75 x 150	339 x 276 x 330	40,000	19.1
DO-41G	2,500	5	26	248 x 80 x 48	410 x 335 x 265	75,000	21.5
DO-41G	2,500	5	52	248 x 80 x 75	410 x 335 x 265	50,000	19.0
P-600	400	10	52	255 x 75 x 150	339 x 276 x 330	3,200	9.0
R-1	5,000	5	26	255 x 50 x 150	339 x 276 x 330	40,000	11.0
R-1	5,000	5	52	255 x 75 x 150	339 x 276 x 330	40,000	16.0

5. HIGH RELIABILITY TESTING SPEC.

NO	TEST ITEM	TEST CONDITION	REFERENCE DOCUMENT	LOT QUALITY LEVEL	REMARK
1	TEMPERA TURE CYCLING (T.C.T)	Ta = -55 + 0, -3 °C 10min Ta = + 150 + / - °C 10min FOR 20 CYCLE	MIL - STD - 750D METHOD - 1051.5	LTPD 10 S.s. = 22 ACCEPT FOR 0 FAILURE ONLY.	
2	HIGH TEMPERATURE STORAGE LIFE (H.T.S.L)	Ta = 150 + / - 5 °C TESTING TIME: 168 HRS 250 HRS 500 HRS	MIL-STD-750D METHOD-1031.2	LTPD10 S.s. = 22 ACCEPT FOR 0 FAILURE ONLY.	
3	SOLDERABILITY TEST	TEMPERATURE OF SOLDER POT = 260 + / - 5 °C TIME FOR DIPPING FLUX = 5 -10 SEC TIME FOR DIPPING IN SOLDER = 5 + / - 0.5 SEC DIPPING DEPTH = 0.05 inch max FOR ONE CYCLE	MIL-STD-750D	METHOD-2026.10 LTPD 7 S.s. = 32 ACCEPT FOR 0 FAILURE ONLY.	
4	HIGH TEMPERATURE REVERSE BIAS (H.T.R.B)	Ta = 150 + / - 5 °C VR = 80 % VR (CUSTOM SECP) TESTING TIME: 168 HRS 250 HRS 500 HRS	MIL-STD-750D METHOD-1038.3	LTPD10 S.s. = 22 ACCEPT FOR 0 FAILURE ONLY.	
5	CONTINUE FORWARD OPERATING LIFE (C.F.O.L)	Ta = 55 °C I = IO + / -10 % TESTING TIME: 168 HRS 250 HRS 500 HRS	MIL-STD-750D METHOD-1027.3	LTPD10 S.s. = 22 ACCEPT FOR 0 FAILURE ONLY.	
6	THERMAL SHOCK (T.S.T)	HOT TANK T = 100 °C + 10 / -2 °C t = 5 min COLD TANK T = 0 °C + 2 / -10 °C t = 5 min 15 CYCLE TIME BETWEEN TRANSFERRING DO'NOT EXCEED 10 SECOND.	MIL-STD-750D METHOD-1056.7	LTPD10 S.s. = 22 ACCEPT FOR 0 FAILURE ONLY.	
7	PRESSURE COOKER (P.C.T)	Ta = 121 °C P = 1.2 kg / cm^2 TIME = 96 HRS	JEDEC JESD22-A102-C	LTPD10 S.s. = 22 ACCEPT FOR 0 FAILURE ONLY.	
8	INTERMITTENT FORWARD OPERATING LIFE (I.F.O.L)	I = Io x 1.0 POWER ON : 30 SEC POWER OFF : 50 SEC TESTING TIME: 2000 CYCLES	MIL-STD-750D METHOD 1036.3	LTPD10 S.s. = 22 ACCEPT FOR 0 FAILURE ONLY.	
9	FORWARD SURGE CURRENT (I.F.S.M)	SQ WAVE OR SINE WAVE IFSM=DATE SHEET SPEC. TIME = 8.3 Msec T = 1 CYCLE	MIL-STD-750D METHOD 4066.3	LTPD10 S.s. = 22 ACCEPT FOR 0 FAILURE ONLY.	
10	HUMIDITY	Ta = 85 °C RH = 85 % TESTING TIME: 168 HRS 250 HRS 500 HRS	MIL-STD-750D METHOD 1021.1	LTPD10 S.s. = 22 ACCEPT FOR 0 FAILURE ONLY.	
11	SOLDERABILITY RESISTANCE	TEMPERATURE OF SOLDER POT = 260 + / -5 °C TIME FOR DIPPING IN SOLDER = 10 + 2 / -0 SEC DIPPING DEPTH = 1.57 + / 0.79 mm BELOW BODY FOR ONE CYCLE	MIL-STD-750D METHOD 2031.1	LTPD10 S.s. = 22 ACCEPT FOR 0 FAILURE ONLY.	
*SCHOTTKY PRODUCT TESTING TEMPERATURE 100 °C MAX (NORMAL)					