



TABLE OF CONTENTS

1.DATA SHEET

PAGE 1

2.MARKING

PAGE 5

3.TAPING

PAGE 6

4.PACKING

PAGE 7

5.HIGH RELIABILITY TESTING SPEC.

PAGE 11



P6SMBJ SERIES

SURFACE MOUNT TRANSIENT VOLTAGE SUPPRESSOR

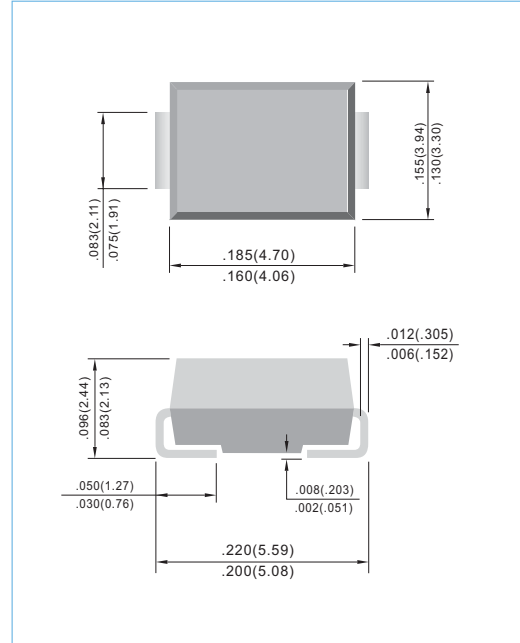
VOLTAGE	5.0 to 220 Volts	PEAK PULSE POWER	600 Watts	SMB/DO-214AA	Unit: inch (mm)
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FEATURES

- For surface mounted applications in order to optimize board space.
- Low profile package
- Built-in strain relief
- Glass passivated junction
- Low inductance
- Typical I_D less than 1.0 μ A above 10V
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- High temperature soldering : 260°C /10 seconds at terminals
- Pb free product : 99% Sn above can meet RoHS environment substance directive request

MECHANICAL DATA

- Case: JEDEC DO-214AA, Molded plastic over passivated junction.
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes positive end (cathode)
- Standard Packaging: 12mm tape (EIA-481)
- Weight: 0.003 ounce, 0.093 gram



DEVICES FOR BIPOLAR APPLICATIONS

For Bidirectional use C or CA Suffix for types P6SMBJ5.0 thru types P6SMBJ220.
Electrical characteristics apply in both directions.

MAXIMUM RATINGS AND CHARACTERISTICS

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

Rating	Symbol	Value	Units
Peak Pulse Power Dissipation on 10/1000 μ s waveform (Notes 1,2, Fig.1)	P _{PPM}	600	Watts
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) (Notes 2,3)	I _{FSM}	100	Amps
Peak Pulse Current on 10/1000s waveform (Note 1) Fig.3	I _{PPM}	see Table 1	Amps
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-55 to +150	°C

NOTES:

1. Non-repetitive current pulse, per Fig.3 and derated above T_A = 25 °C per Fig. 2.
2. Mounted on 5.0mm² (0.13mm thick) land areas.
3. Measured on 8.3ms, single half sine-wave or equivalent square wave, duty cycle = 4 pulses per minute maximum.



P6SMBJ SERIES

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	A	UNI-	BI-
UNI-	BI-	V	V	V	mA	uA	uA	V	A	UNI-	BI-
P6SMBJ5.0	P6SMBJ5.0C	5.0	6.40	7.55	10	800	1600	9.6	62.5	KD	AD
P6SMBJ5.0A	P6SMBJ5.0CA	5.0	6.40	7.25	10	800	1600	9.2	65.2	KE	AE
P6SMBJ6.0	P6SMBJ6.0C	6.0	6.67	8.45	10	800	1600	11.4	52.6	KF	AF
P6SMBJ6.0A	P6SMBJ6.0CA	6.0	6.67	7.67	10	800	1600	10.3	58.3	KG	AG
P6SMBJ6.5	P6SMBJ6.5C	6.5	7.22	9.14	10	500	1000	12.3	48.7	KH	AH
P6SMBJ6.5A	P6SMBJ6.5CA	6.5	7.22	8.30	10	500	1000	11.2	53.6	KK	AK
P6SMBJ7.0	P6SMBJ7.0C	7.0	7.78	9.86	10	200	400	13.3	45.1	KL	AL
P6SMBJ7.0A	P6SMBJ7.0CA	7.0	7.78	8.95	10	200	400	12.0	50.0	KM	AM
P6SMBJ7.5	P6SMBJ7.5C	7.5	8.33	10.67	1.0	100	200	14.3	42.0	KN	AN
P6SMBJ7.5A	P6SMBJ7.5CA	7.5	8.33	9.58	1.0	100	200	12.9	46.5	KP	AP
P6SMBJ8.0	P6SMBJ8.0C	8.0	8.89	11.30	1.0	50	100	15.0	40.0	KQ	AQ
P6SMBJ8.0A	P6SMBJ8.0CA	8.0	8.89	10.23	1.0	50	100	13.6	44.1	KR	AR
P6SMBJ8.5	P6SMBJ8.5C	8.5	9.44	11.92	1.0	10	20	15.9	37.7	KS	AS
P6SMBJ8.5A	P6SMBJ8.5CA	8.5	9.44	10.82	1.0	10	20	14.4	41.7	KT	AT
P6SMBJ9.0	P6SMBJ9.0C	9.0	10.0	12.6	1.0	5	10	16.9	35.5	KU	AU
P6SMBJ9.0A	P6SMBJ9.0CA	9.0	10.0	11.5	1.0	5	10	15.4	39.0	KV	AV
P6SMBJ10	P6SMBJ10C	10	11.1	14.1	1.0	5	5	18.8	31.9	KW	AW
P6SMBJ10A	P6SMBJ10CA	10	11.1	12.8	1.0	5	5	17.0	35.3	KX	AX
P6SMBJ11	P6SMBJ11C	11	12.2	15.4	1.0	5	5	20.1	29.9	KY	AY
P6SMBJ11A	P6SMBJ11CA	11	12.2	14.0	1.0	5	5	18.2	33.0	KZ	AZ
P6SMBJ12	P6SMBJ12C	12	13.3	16.9	1.0	5	5	22.0	27.3	LD	BD
P6SMBJ12A	P6SMBJ12CA	12	13.3	15.3	1.0	5	5	19.9	30.2	LE	BE
P6SMBJ13	P6SMBJ13C	13	14.4	18.2	1.0	5	5	23.8	25.2	LF	BF
P6SMBJ13A	P6SMBJ13CA	13	14.4	16.5	1.0	5	5	21.5	27.9	LG	BG
P6SMBJ14	P6SMBJ14C	14	15.6	19.8	1.0	5	5	25.8	23.3	LH	BH
P6SMBJ14A	P6SMBJ14CA	14	15.6	17.9	1.0	5	5	23.2	25.8	LK	BK
P6SMBJ15	P6SMBJ15C	15	16.7	21.1	1.0	5	5	26.9	22.3	LL	BL
P6SMBJ15A	P6SMBJ15CA	15	16.7	19.2	1.0	5	5	24.4	24.0	LM	BM
P6SMBJ16	P6SMBJ16C	16	17.8	22.6	1.0	5	5	28.8	20.8	LN	BN
P6SMBJ16A	P6SMBJ16CA	16	17.8	20.5	1.0	5	5	26.0	23.1	LP	BP
P6SMBJ17	P6SMBJ17C	17	18.9	23.9	1.0	5	5	30.5	19.7	LQ	BQ
P6SMBJ17A	P6SMBJ17CA	17	18.9	21.7	1.0	5	5	27.6	21.7	LR	BR
P6SMBJ18	P6SMBJ18C	18	20.0	25.3	1.0	5	5	32.2	18.6	LS	BS
P6SMBJ18A	P6SMBJ18CA	18	20.0	23.3	1.0	5	5	29.2	20.5	LT	BT
P6SMBJ20	P6SMBJ20C	20	22.2	28.1	1.0	5	5	35.8	16.7	LU	BU
P6SMBJ20A	P6SMBJ20CA	20	22.2	25.5	1.0	5	5	32.4	18.5	LV	BV
P6SMBJ22	P6SMBJ22C	22	24.4	30.9	1.0	5	5	39.4	15.2	LW	BW
P6SMBJ22A	P6SMBJ22CA	22	24.4	28.0	1.0	5	5	35.5	16.9	LX	BX
P6SMBJ24	P6SMBJ24C	24	26.7	33.8	1.0	5	5	43.0	14.0	LY	BY
P6SMBJ24A	P6SMBJ24CA	24	26.7	30.7	1.0	5	5	38.9	15.4	LZ	BZ
P6SMBJ26	P6SMBJ26C	26	28.9	36.6	1.0	5	5	46.6	12.4	MD	CD
P6SMBJ26A	P6SMBJ26CA	26	28.9	33.2	1.0	5	5	42.1	14.2	ME	CE
P6SMBJ28	P6SMBJ28C	28	31.1	39.4	1.0	5	5	50.0	12.0	MF	CF
P6SMBJ28A	P6SMBJ28CA	28	31.1	35.8	1.0	5	5	45.4	13.2	MG	CG
P6SMBJ30	P6SMBJ30C	30	33.3	42.2	1.0	5	5	53.5	11.2	MH	CH
P6SMBJ30A	P6SMBJ30CA	30	33.3	38.3	1.0	5	5	48.4	12.4	MK	CK
P6SMBJ33	P6SMBJ33C	33	36.7	46.5	1.0	5	5	59.0	10.2	ML	CL
P6SMBJ33A	P6SMBJ33CA	33	36.7	42.2	1.0	5	5	53.3	11.3	MM	CM
P6SMBJ36	P6SMBJ36C	36	40.0	50.7	1.0	5	5	64.3	9.3	MN	CN
P6SMBJ36A	P6SMBJ36CA	36	40.0	46.0	1.0	5	5	58.1	10.3	MP	CP
P6SMBJ40	P6SMBJ40C	40	44.4	56.3	1.0	5	5	71.4	8.4	MQ	CQ
P6SMBJ40A	P6SMBJ40CA	40	44.4	51.1	1.0	5	5	64.5	9.3	MR	CR



P6SMBJ SERIES

Part Number		V _{RWM}	V _{BR} @ I _T			I _R @ V _{RWM}		V _C @ I _{PP}		Marking Code	
			Min. V	Max. V	I _T mA	UNI- uA	BI- uA	V	A	UNI- CS	BI- MS
P6SMBJ43	P6SMBJ43C	43	47.8	60.5	1.0	5	5	76.7	7.8	MS	CS
P6SMBJ43A	P6SMBJ43CA	43	47.8	54.9	1.0	5	5	69.4	8.6	MT	CT
P6SMBJ45	P6SMBJ45C	45	50.0	63.3	1.0	5	5	80.3	7.5	MU	CU
P6SMBJ45A	P6SMBJ45CA	45	50.0	57.5	1.0	5	5	72.7	8.3	MV	CV
P6SMBJ48	P6SMBJ48C	48	53.3	67.5	1.0	5	5	85.5	7.0	MW	CW
P6SMBJ48A	P6SMBJ48CA	48	53.3	61.3	1.0	5	5	77.4	7.7	MX	CX
P6SMBJ51	P6SMBJ51C	51	56.7	71.8	1.0	5	5	91.1	6.6	MY	CY
P6SMBJ51A	P6SMBJ51CA	51	56.7	65.2	1.0	5	5	82.4	7.3	MZ	CZ
P6SMBJ54	P6SMBJ54C	54	60.0	76.0	1.0	5	5	96.3	6.2	ND	DD
P6SMBJ54A	P6SMBJ54CA	54	60.0	69.0	1.0	5	5	87.1	6.9	NE	DE
P6SMBJ58	P6SMBJ58C	58	64.4	81.6	1.0	5	5	103	5.8	NF	DF
P6SMBJ58A	P6SMBJ58CA	58	64.4	74.1	1.0	5	5	93.6	6.4	NG	DG
P6SMBJ60	P6SMBJ60C	60	66.7	84.5	1.0	5	5	107	5.6	NH	DH
P6SMBJ60A	P6SMBJ60CA	60	66.7	76.7	1.0	5	5	96.8	6.2	NK	DK
P6SMBJ64	P6SMBJ64C	64	71.1	90.1	1.0	5	5	114	5.3	NL	DL
P6SMBJ64A	P6SMBJ64CA	64	71.1	81.8	1.0	5	5	103	5.8	NM	DM
P6SMBJ70	P6SMBJ70C	70	77.8	98.6	1.0	5	5	125	4.8	NN	DN
P6SMBJ70A	P6SMBJ70CA	70	77.8	89.5	1.0	5	5	113	5.3	NP	DP
P6SMBJ75	P6SMBJ75C	75	83.3	105.7	1.0	5	5	134	4.5	NQ	DQ
P6SMBJ75A	P6SMBJ75CA	75	83.3	95.8	1.0	5	5	121	4.9	NR	DR
P6SMBJ78	P6SMBJ78C	78	86.7	109.8	1.0	5	5	139	4.3	NS	DS
P6SMBJ78A	P6SMBJ78CA	78	86.7	99.7	1.0	5	5	126	4.7	NT	DT
P6SMBJ85	P6SMBJ85C	85	94.4	119.2	1.0	5	5	151	3.9	NU	DU
P6SMBJ85A	P6SMBJ85CA	85	94.4	108.2	1.0	5	5	137	4.4	NV	DV
P6SMBJ90	P6SMBJ90C	90	100	126.5	1.0	5	5	160	3.8	NW	DW
P6SMBJ90A	P6SMBJ90CA	90	100	115.5	1.0	5	5	146	4.1	NX	DX
P6SMBJ100	P6SMBJ100C	100	111	141.0	1.0	5	5	179	3.4	NY	DY
P6SMBJ100A	P6SMBJ100CA	100	111	128.0	1.0	5	5	162	3.7	NZ	DZ
P6SMBJ110	P6SMBJ110C	110	122	154.5	1.0	5	5	196	3.0	PD	ED
P6SMBJ110A	P6SMBJ110CA	110	122	140.5	1.0	5	5	177	3.4	PE	EE
P6SMBJ120	P6SMBJ120C	120	133	169.0	1.0	5	5	214	2.8	PF	EF
P6SMBJ120A	P6SMBJ120CA	120	133	153.0	1.0	5	5	193	3.1	PG	EG
P6SMBJ130	P6SMBJ130C	130	144	182.5	1.0	5	5	231	2.6	PH	EH
P6SMBJ130A	P6SMBJ130CA	130	144	165.5	1.0	5	5	209	2.9	PK	EK
P6SMBJ150	P6SMBJ150C	150	167	211.5	1.0	5	5	268	2.2	PL	EL
P6SMBJ150A	P6SMBJ150CA	150	167	192.5	1.0	5	5	243	2.5	PM	EM
P6SMBJ160	P6SMBJ160C	160	178	226.0	1.0	5	5	287	2.1	PN	EN
P6SMBJ160A	P6SMBJ160CA	160	178	205.0	1.0	5	5	259	2.3	PP	EP
P6SMBJ170	P6SMBJ170C	170	189	239.5	1.0	5	5	304	2.0	PQ	EQ
P6SMBJ170A	P6SMBJ170CA	170	189	217.5	1.0	5	5	275	2.2	PR	ER
P6SMBJ180	P6SMBJ180C	180	198	253.8	1.0	5	5	322	1.9	PS	ES
P6SMBJ180A	P6SMBJ180CA	180	198	230.4	1.0	5	5	292	2.1	PT	ET
P6SMBJ190	P6SMBJ190C	190	209	267.9	1.0	5	5	340	1.8	PU	EU
P6SMBJ190A	P6SMBJ190CA	190	209	243.2	1.0	5	5	308	2.0	PV	EV
P6SMBJ200	P6SMBJ200C	200	220	282	1.0	5	5	358	1.7	PW	EW
P6SMBJ200A	P6SMBJ200CA	200	220	256	1.0	5	5	324	1.9	PX	EX
P6SMBJ210	P6SMBJ210C	210	231	296.1	1.0	5	5	376	1.6	PY	EY
P6SMBJ210A	P6SMBJ210CA	210	231	268.8	1.0	5	5	340	1.8	PZ	EZ
P6SMBJ220	P6SMBJ220C	220	242	310.2	1.0	5	5	394	1.5	QD	FD
P6SMBJ220A	P6SMBJ220CA	220	242	281.6	1.0	5	5	356	1.7	QE	FE



P6SMBJ SERIES

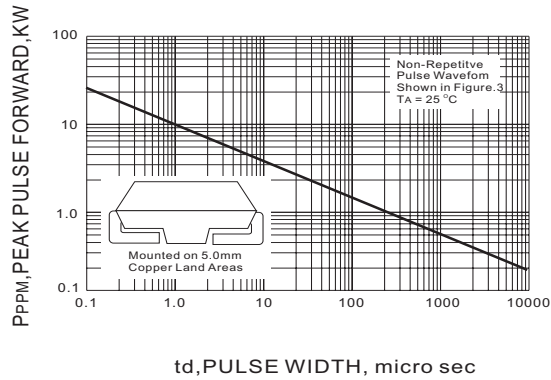


Fig.1 PEAK PULSE POWER RATING CURVE

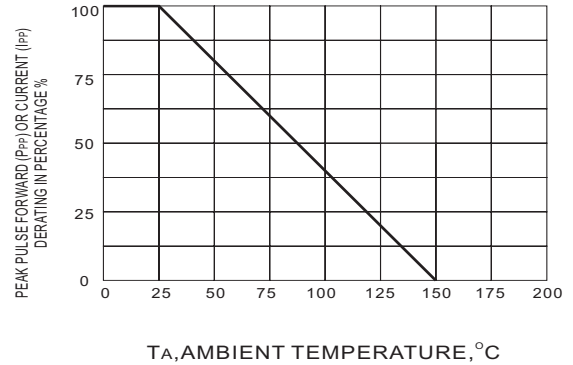


Fig.2 DERATING CURVE

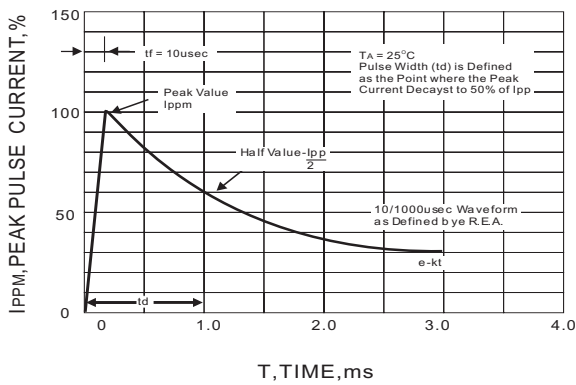


Fig.3 PULSE WAVEFORM

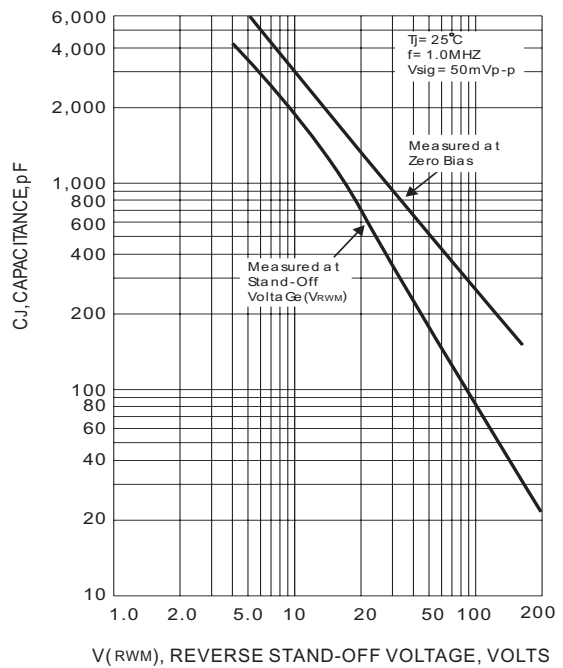


Fig.4 TYPICAL CAPACITANCE

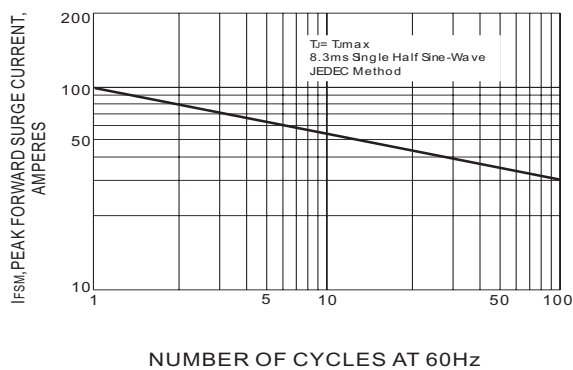


Fig.5 MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

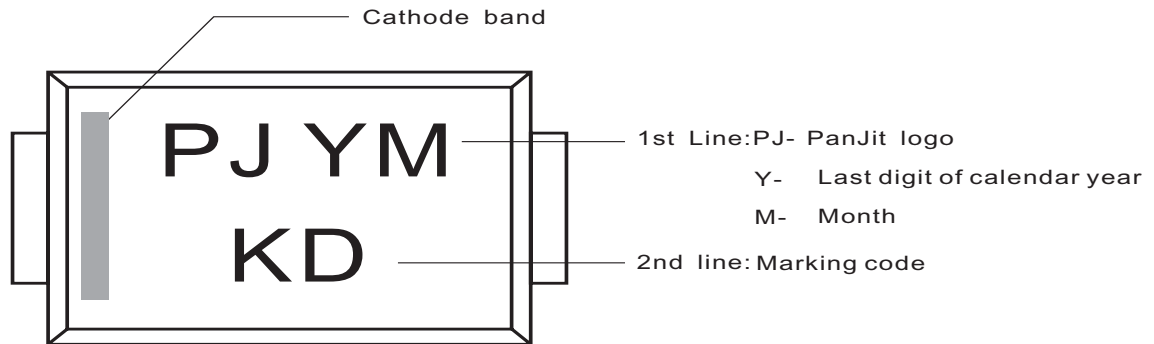
LEGAL STATEMENT

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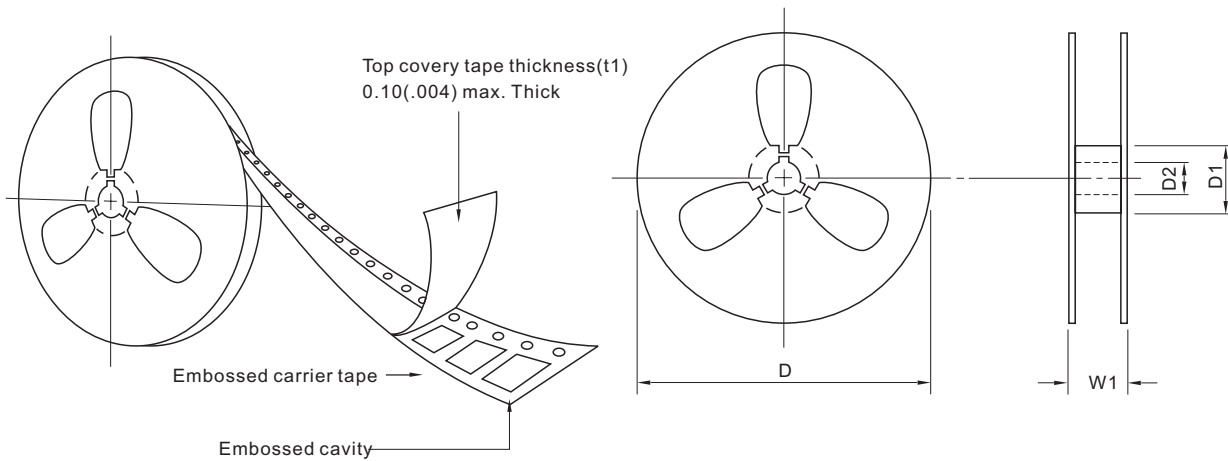
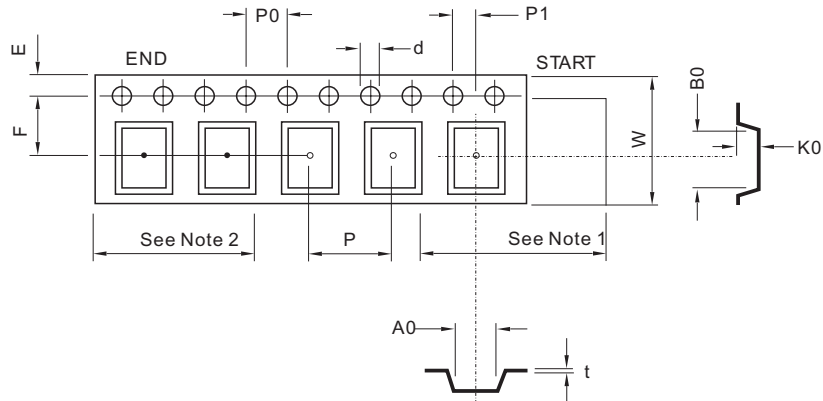


2. MARKING





3. TAPING



SYMBOL	mm(inch)
TYPE SIZE	16.00 (0.629)
Ao	5.99 ± 0.10 (0.235 ± 0.003)
Bo	8.15 ± 0.10 (0.320 ± 0.003)
d	1.55 ± 0.05 (0.06 ± 0.001)
D	330.0 ± 2.0 (13.0 ± 0.078)
D1	50.0 min (1.97 min)
D2	13.0 ± 0.5 (0.51 ± 0.019)
E	1.75 ± 0.10 (0.068 ± 0.003)
F	7.50 ± 0.05 (0.295 ± 0.001)
Ko	2.24 ± 0.10 (0.088 ± 0.003)
P	8.00 ± 0.10 (0.314 ± 0.003)
Po	4.00 ± 0.10 (0.15 ± 0.003)
P1	2.00 ± 0.10 (0.07 ± 0.003)
t	0.32 ± 0.10 (0.012 ± 0.003)
W	16.00 ± 3.00 (0.629 ± 0.118)
W1	16.40~18.40(0.645~0.724)

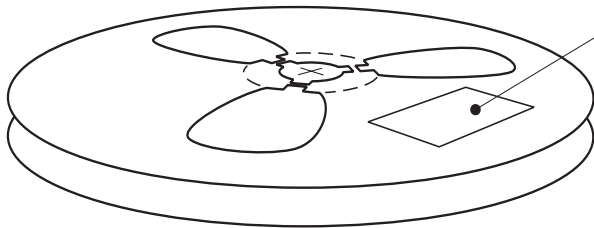
Note:

1. There shall be leader of 230 mm minimum which may consist of carrier and or cover tape follower by a minimum of 160 mm of carrier tape sealed with cover tape.
2. There shall be minimum of 160 mm of empty component pockets sealed with cover tape.
3. Devices are packed in accordance whit EIA standard EIA-481-A and specifications given above.



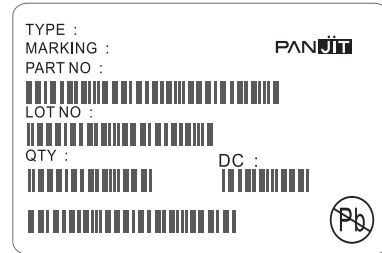
4. PACKING

REEL PACKING

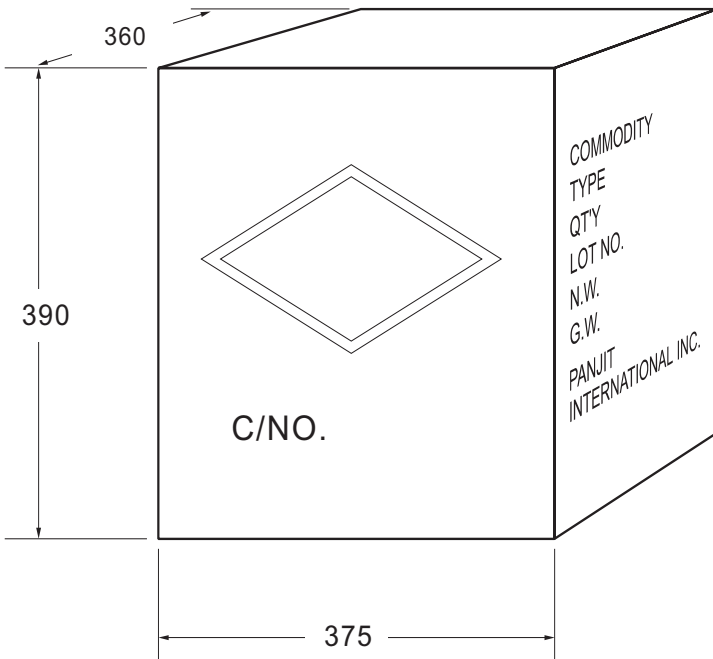


Quantity per Reel: 3,000 pcs

LABEL TYPE

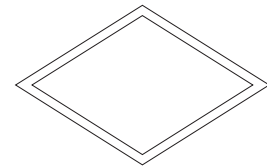


CARTON



Box Dimensions : mm
Quantity per Box: 48,000pcs

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	BOX	CARTON SIZE	CARTON	APPROX. GROSS WEIGHT
	(m/m)	(EA)	(m/m)	(EA)	(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	TEMPERATURE CYCLING (T.C.T)	Ta = -55 + 0, -3 °C 10min Ta = +150 +/- °C 10min FOR 20 CYCLE	MIL-STD-750D METHOD-1051.5	LTPD10 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 = 245 +/- 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)