



**TABLE OF CONTENTS**

1.DATA SHEET

PAGE 1

2.MARKING

PAGE 5

3.TAPING

PAGE 6

4.PACKING

PAGE 7

5.HIGH RELIABILITY SPEC.

PAGE 11



# P6SMB SERIES

## SURFACE MOUNT TRANSIENT VOLTAGE SUPPRESSOR

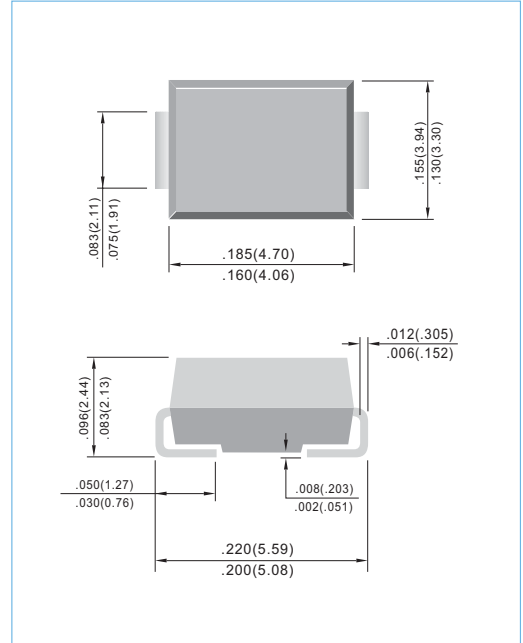
**VOLTAGE** 6.8 to 250 Volts **PEAK PULSE POWER** 600 Watts **SMB/DO-214AA** Unit: inch (mm)

### 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 1.0μA above 10V
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- 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 P6SMB6.8 thru types P6SMB250.  
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 10/1000uS waveform (Notes 1,2, Fig.1)	P <sub>PPM</sub>	600	Watts
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) (Notes 2,3)	I <sub>FSM</sub>	100	Amps
Peak Pulse Current on 10/1000s waveform (Note 1) Fig.3	I <sub>PPM</sub>	see Table 1	Amps
Operating Junction and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55 to +150	°C

#### NOTES:

1. Non-repetitive current pulse, per Fig.3 and derated above T<sub>A</sub> = 25 °C per Fig. 2.
2. Mounted on 5.0mm<sup>2</sup> (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.



# P6SMB SERIES

Part Number	Part Number	Reverse Stand-off Voltage	V <sub>BR</sub> @ I <sub>T</sub>			I <sub>r</sub> @ V <sub>RWM</sub>		V <sub>c</sub> @ I <sub>PP</sub>		PACKAGE	Marking code	
			VRWM	Min.	Max.	I <sub>T</sub>	UNI	BI	V		A	UNI
UNI	BI	V	V	V	mA	uA	uA	V	A		UNI	BI
<b>600W Transient Voltage Suppressor</b>												
P6SMB6.8	P6SMB6.8C	5.50	6.12	7.48	10	1000	2000	10.8	56.0	SMB/DO-214AA	EZA	DZA
P6SMB6.8A	P6SMB6.8CA	5.80	6.45	7.14	10	1000	2000	10.5	57.0	SMB/DO-214AA	EZB	DZB
P6SMB7.5	P6SMB7.5C	6.05	6.75	8.25	10	500	1000	11.7	51.0	SMB/DO-214AA	EZC	DZC
P6SMB7.5A	P6SMB7.5CA	6.40	7.13	7.88	10	500	1000	11.3	53.0	SMB/DO-214AA	EZD	DZD
P6SMB8.2	P6SMB8.2C	6.63	7.38	9.02	10	200	400	12.5	48.0	SMB/DO-214AA	EZE	DZE
P6SMB8.2A	P6SMB8.2CA	7.02	7.79	8.61	10	200	400	12.1	50.0	SMB/DO-214AA	EZF	DZF
P6SMB9.1	P6SMB9.1C	7.37	8.19	10.00	1.0	50	100	13.8	44.0	SMB/DO-214AA	EZG	DZG
P6SMB9.1A	P6SMB9.1CA	7.78	8.65	9.50	1.0	50	100	13.4	45.0	SMB/DO-214AA	EZH	DZH
P6SMB10	P6SMB10C	8.10	9.00	11.00	1.0	10	20	15.0	40.0	SMB/DO-214AA	EZJ	DZJ
P6SMB10A	P6SMB10CA	8.55	9.50	10.50	1.0	10	20	14.5	41.0	SMB/DO-214AA	EZK	DZK
P6SMB11	P6SMB11C	8.92	9.90	12.10	1.0	5	10	16.2	37.0	SMB/DO-214AA	EZL	DZL
P6SMB11A	P6SMB11CA	9.40	10.50	11.60	1.0	5	10	15.6	38.0	SMB/DO-214AA	EZM	DZM
P6SMB12	P6SMB12C	9.72	10.80	13.20	1.0	5	5	17.3	35.0	SMB/DO-214AA	EZN	DZN
P6SMB12A	P6SMB12CA	10.2	11.40	12.60	1.0	5	5	16.7	36.0	SMB/DO-214AA	EZP	DZP
P6SMB13	P6SMB13C	10.5	11.70	14.30	1.0	5	5	19.0	32.0	SMB/DO-214AA	EZQ	DZQ
P6SMB13A	P6SMB13CA	11.1	12.40	13.70	1.0	5	5	18.2	33.0	SMB/DO-214AA	EZR	DZR
P6SMB15	P6SMB15C	12.1	13.50	16.50	1.0	1	1	22.0	27.0	SMB/DO-214AA	EZS	DZS
P6SMB15A	P6SMB15CA	12.8	14.30	15.80	1.0	1	1	21.2	28.0	SMB/DO-214AA	EZT	DZT
P6SMB16	P6SMB16C	12.9	14.40	17.60	1.0	1	1	23.5	26.0	SMB/DO-214AA	EZU	DZU
P6SMB16A	P6SMB16CA	13.6	15.20	16.80	1.0	1	1	22.5	27.0	SMB/DO-214AA	EZV	DZV
P6SMB18	P6SMB18C	14.5	16.20	19.80	1.0	1	1	26.5	23.0	SMB/DO-214AA	EZW	DZW
P6SMB18A	P6SMB18CA	15.3	17.10	18.90	1.0	1	1	25.2	24.0	SMB/DO-214AA	EZX	DZX
P6SMB20	P6SMB20C	16.2	18.00	22.00	1.0	1	1	29.1	21.0	SMB/DO-214AA	EZY	DZY
P6SMB20A	P6SMB20CA	17.1	19.00	21.00	1.0	1	1	27.7	22.0	SMB/DO-214AA	EZZ	DZZ
P6SMB22	P6SMB22C	17.8	19.80	24.20	1.0	1	1	31.9	19.0	SMB/DO-214AA	EXA	DXA
P6SMB22A	P6SMB22CA	18.8	20.90	23.10	1.0	1	1	30.6	20.0	SMB/DO-214AA	EXB	DXB
P6SMB24	P6SMB24C	19.4	21.60	26.40	1.0	1	1	34.7	17.0	SMB/DO-214AA	EXC	DXC
P6SMB24A	P6SMB24CA	20.5	22.80	25.20	1.0	1	1	33.2	18.0	SMB/DO-214AA	EXD	DXD
P6SMB27	P6SMB27C	21.8	24.30	29.70	1.0	1	1	39.1	15.0	SMB/DO-214AA	EXE	DXE
P6SMB27A	P6SMB27CA	23.1	25.70	28.40	1.0	1	1	37.5	16.0	SMB/DO-214AA	EXF	DXF
P6SMB30	P6SMB30C	24.3	27.00	33.00	1.0	1	1	43.5	14.0	SMB/DO-214AA	EXG	DXG
P6SMB30A	P6SMB30CA	25.6	28.50	31.50	1.0	1	1	41.4	14.4	SMB/DO-214AA	EXH	DXH
P6SMB33	P6SMB33C	26.8	29.70	36.30	1.0	1	1	47.7	12.6	SMB/DO-214AA	EXJ	DXJ
P6SMB33A	P6SMB33CA	28.2	31.40	34.70	1.0	1	1	45.7	13.2	SMB/DO-214AA	EXK	DXK
P6SMB36	P6SMB36C	29.1	32.40	39.60	1.0	1	1	52.0	11.6	SMB/DO-214AA	EXL	DXL
P6SMB36A	P6SMB36CA	30.8	34.20	37.80	1.0	1	1	49.9	12.0	SMB/DO-214AA	EXM	DXM
P6SMB39	P6SMB39C	31.6	35.10	42.90	1.0	1	1	56.4	10.6	SMB/DO-214AA	EXN	DXN
P6SMB39A	P6SMB39CA	33.3	37.10	41.00	1.0	1	1	53.9	11.2	SMB/DO-214AA	EXP	DXP
P6SMB43	P6SMB43C	34.8	38.70	47.30	1.0	1	1	61.9	9.6	SMB/DO-214AA	EXQ	DXQ

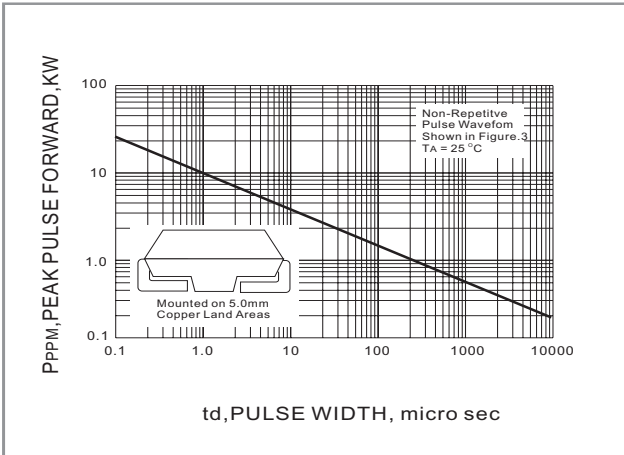


# P6SMB SERIES

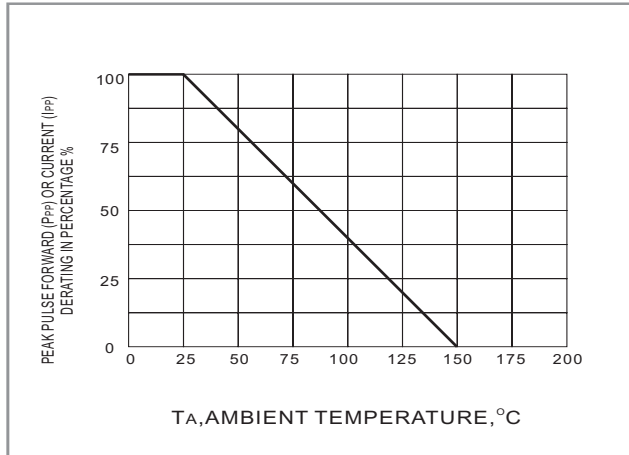
Part Number	Part Number	V <sub>RWM</sub>	V <sub>BR</sub> @ I <sub>T</sub>			I <sub>r</sub> @ V <sub>RWM</sub>		V <sub>c</sub> @ I <sub>PP</sub>		PACKAGE	Marking Code	
			Min.	Max.	I <sub>T</sub>	UNI-	BI-	V	A		UNI	BI
UNI	BI	V	V	V	mA	uA	uA	V	A		UNI	BI
<b>600W Transient Voltage Suppressor</b>												
P6SMB43A	P6SMB43CA	36.8	40.90	45.20	1.0	1	1	59.3	10.1	SMB/DO-214AA	EXR	DXR
P6SMB47	P6SMB47C	38.1	42.30	51.70	1.0	1	1	67.8	8.9	SMB/DO-214AA	EXS	DXS
P6SMB47A	P6SMB47CA	40.2	44.70	49.40	1.0	1	1	64.8	9.3	SMB/DO-214AA	EXT	DXT
P6SMB51	P6SMB51C	41.3	45.90	56.10	1.0	1	1	73.5	8.2	SMB/DO-214AA	EXU	DXU
P6SMB51A	P6SMB51CA	43.6	48.50	53.60	1.0	1	1	70.1	8.6	SMB/DO-214AA	EXV	DXV
P6SMB56	P6SMB56C	45.6	50.40	61.60	1.0	1	1	80.5	7.4	SMB/DO-214AA	EXW	DXW
P6SMB56A	P6SMB56CA	47.8	53.20	58.80	1.0	1	1	77.0	7.8	SMB/DO-214AA	EXX	DXX
P6SMB62	P6SMB62C	50.2	55.80	68.20	1.0	1	1	89.0	6.8	SMB/DO-214AA	EXY	DXY
P6SMB62A	P6SMB62CA	53.0	58.90	65.10	1.0	1	1	85.0	7.1	SMB/DO-214AA	EXZ	DXZ
P6SMB68	P6SMB68C	55.1	61.20	74.80	1.0	1	1	98.0	6.1	SMB/DO-214AA	EYA	DYA
P6SMB6A	P6SMB68CA	58.1	64.60	71.40	1.0	1	1	92.0	6.5	SMB/DO-214AA	EYB	DYB
P6SMB75	P6SMB75C	60.7	67.50	82.50	1.0	1	1	108	5.5	SMB/DO-214AA	EYC	DYC
P6SMB75A	P6SMB75CA	64.1	71.30	78.80	1.0	1	1	103	5.8	SMB/DO-214AA	EYD	DYD
P6SMB82	P6SMB82C	66.4	73.80	90.20	1.0	1	1	118	5.1	SMB/DO-214AA	EYE	DYE
P6SMB82A	P6SMB82CA	70.1	77.90	86.10	1.0	1	1	113	5.3	SMB/DO-214AA	EYF	DYF
P6SMB91	P6SMB91C	73.7	81.9	100	1.0	1	1	131	4.5	SMB/DO-214AA	EYG	DYG
P6SMB91A	P6SMB91CA	77.8	86.5	95.5	1.0	1	1	125	4.8	SMB/DO-214AA	EYH	DYH
P6SMB100	P6SMB100C	81.0	90.0	110	1.0	1	1	144	4.2	SMB/DO-214AA	EYJ	DYJ
P6SMB100A	P6SMB100CA	85.5	95.0	105	1.0	1	1	137	4.4	SMB/DO-214AA	EYK	DYK
P6SMB110	P6SMB110C	89.2	99.0	121	1.0	1	1	158	3.8	SMB/DO-214AA6	EYL	DYL
P6SMB110A	P6SMB110CA	94.0	105	116	1.0	1	1	152	4.0	SMB/DO-214AA	EYM	DYM
P6SMB120	P6SMB120C	97.2	108	132	1.0	1	1	173	3.5	SMB/DO-214AA	EYN	DYN
P6SMB120A	P6SMB120CA	102	114	126	1.0	1	1	165	3.6	SMB/DO-214AA	EYP	DYP
P6SMB130	P6SMB130C	105	117	143	1.0	1	1	187	3.2	SMB/DO-214AA	EYQ	DYQ
P6SMB130A	P6SMB130CA	111	124	137	1.0	1	1	179	3.3	SMB/DO-214AA	EYR	DYR
P6SMB150	P6SMB150C	121	135	165	1.0	1	1	215	2.8	SMB/DO-214AA	EYS	DYS
P6SMB150A	P6SMB150CA	128	143	158	1.0	1	1	207	2.9	SMB/DO-214AA	EYT	DYT
P6SMB160	P6SMB160C	130	144	176	1.0	1	1	230	2.6	SMB/DO-214AA	EYU	DYU
P6SMB160A	P6SMB160CA	136	152	168	1.0	1	1	219	2.7	SMB/DO-214AA	EYV	DYV
P6SMB170	P6SMB170C	138	153	187	1.0	1	1	244	2.5	SMB/DO-214AA	EYW	DYW
P6SMB170A	P6SMB170CA	145	162	179	1.0	1	1	234	2.6	SMB/DO-214AA	EYX	DYX
P6SMB180	P6SMB180C	146	162	198	1.0	1	1	258	2.3	SMB/DO-214AA	EYY	DYY
P6SMB180A	P6SMB180CA	154	171	189	1.0	1	1	246	2.4	SMB/DO-214AA	EYZ	DYZ
P6SMB200	P6SMB200C	162	180	220	1.0	1	1	287	2.1	SMB/DO-214AA	EWA	DWA
P6SMB200A	P6SMB200CA	171	190	210	1.0	1	1	274	2.2	SMB/DO-214AA	EWB	DWB
P6SMB220	P6SMB220C	175	198	242	1.0	1	1	344	1.8	SMB/DO-214AA	EWC	DWC
P6SMB220A	P6SMB220CA	185	209	231	1.0	1	1	328	1.9	SMB/DO-214AA	EWD	DWD
P6SMB250	P6SMB250C	202	225	275	1.0	1	1	360	1.7	SMB/DO-214AA	EWE	DWE
P6SMB250A	P6SMB250CA	214	237	263	1.0	1	1	344	1.8	SMB/DO-214AA	EWF	DWF



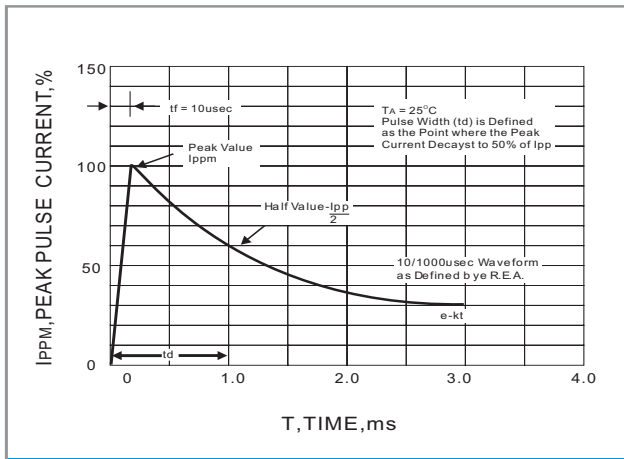
**P6SMB SERIES**



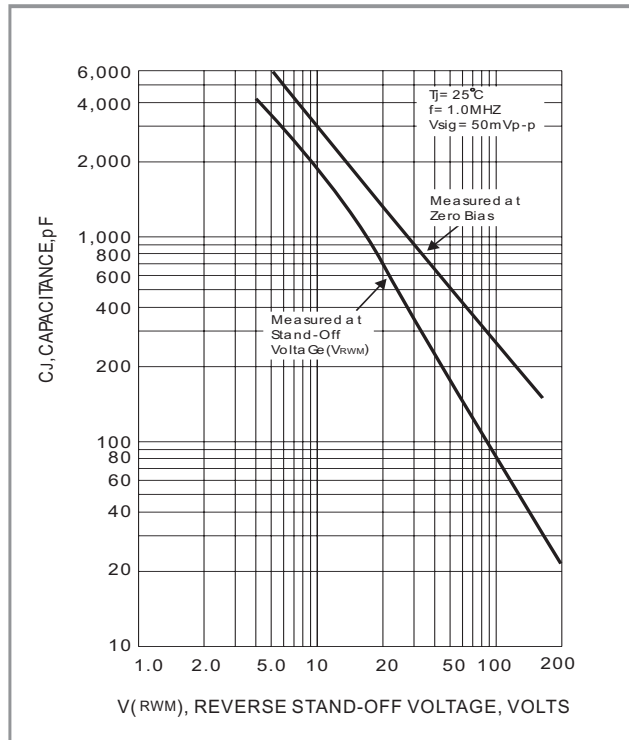
**Fig.1 PEAK PULSE POWER RATING CURVE**



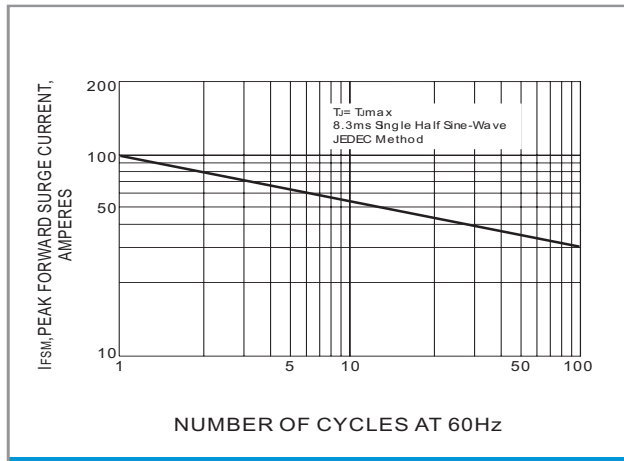
**Fig.2 DERATING CURVE**



**Fig.3 PULSE WAVEFORM**



**Fig.4 TYPICAL CAPACITANCE**



**Fig.5 MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT**

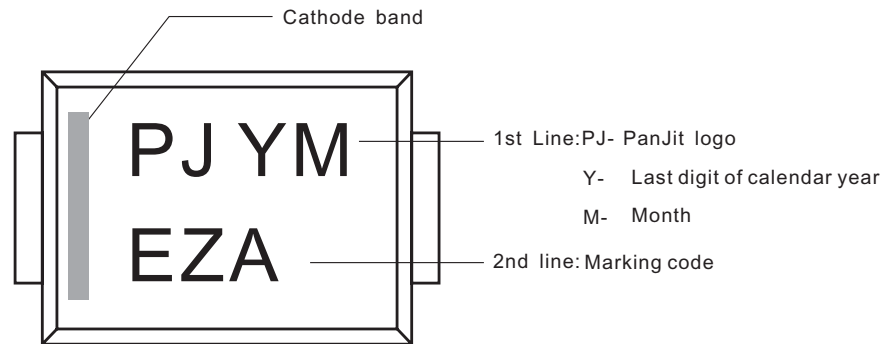
**LEGAL STATEMENT**

**Copyright PanJit International, Inc 2005**

The information presented in this document is believed to be accurate and reliable. The specifications and information herein are subject to change without notice. Pan Jit makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose. Pan Jit products are not authorized for use in life support devices or systems. Pan Jit does not convey any license under its patent rights or rights of others.

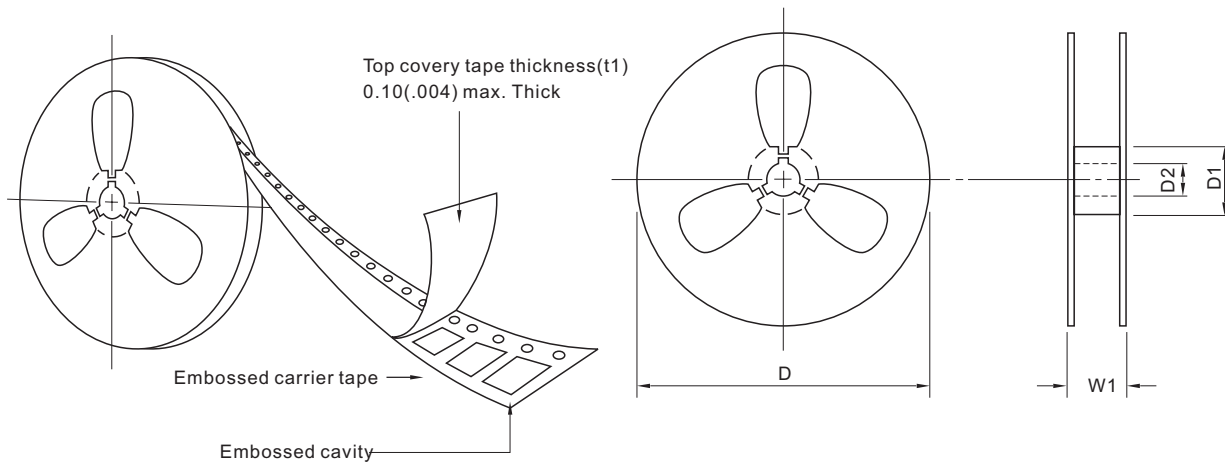
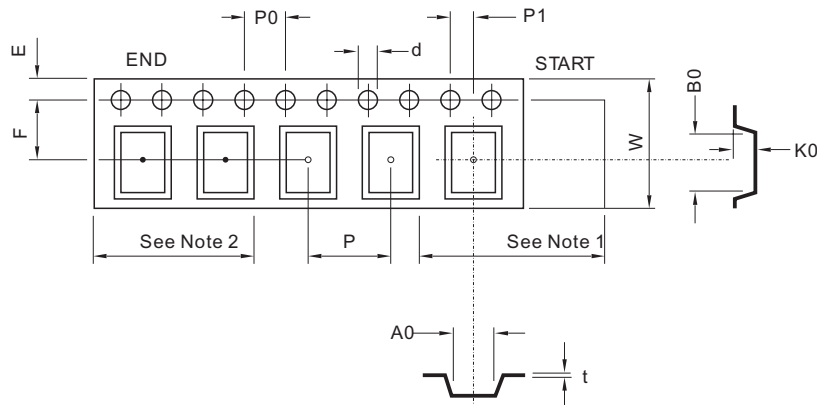


## 2. MARKING





### 3. TAPING



SYMBOL	mm(INCH)
TYPE SIZE	12.00 (0.472)
Ao	2.72 ± 0.10(0.109 ± 0.004)
Bo	5.25 ± 0.10(0.210 ± 0.004)
d	1.55 ± 0.05(0.061 ± 0.002)
D	330.00/178.00(13/7)
D1	50.00min(1.969min)
D2	13.00 ± 0.20(0.512 ± 0.008)
E	1.75 ± 0.10(0.069 ± 0.004)
F	5.50 ± 0.05(0.217 ± 0.002)
Ko	2.45 ± 0.10(0.096 ± 0.004)
P	4.00 ± 0.10(0.157 ± 0.004)
Po	4.00 ± 0.10(0.157 ± 0.004)
P1	2.00 ± 0.05(0.079 ± 0.002)
t	0.23 ± 0.10(0.009 ± 0.004)
W	12.00 ± 0.30(0.472 ± 0.012)
W1	12.00~14.40(0.472~0.567)

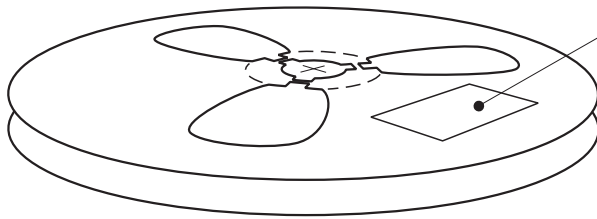
NOTE:

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 e 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.



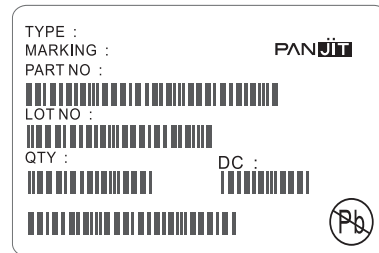
## 4. PACKING

### REEL PACKING

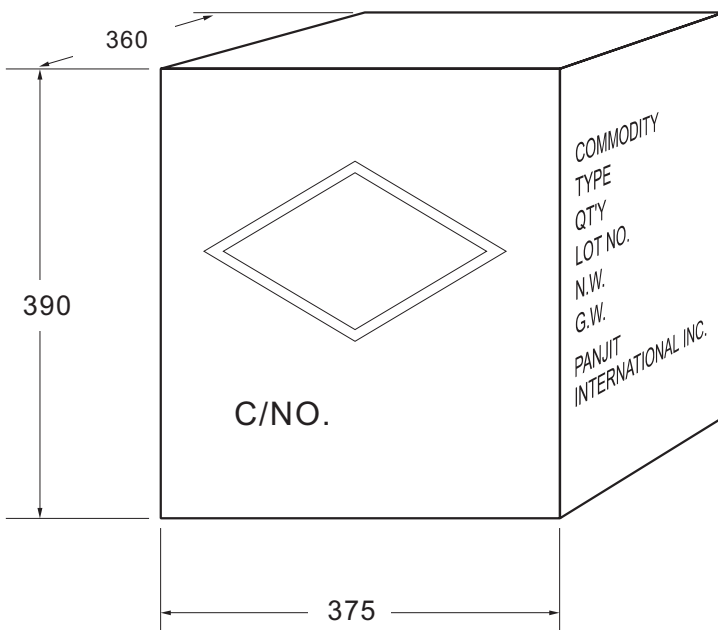


Quantity per Reel: 3,000 pcs

#### LABEL TYPE

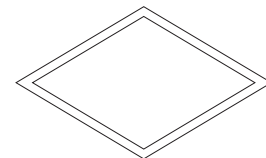


### CARTON



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)
<b>Bulk Packing</b>					
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	195 x 195 x 40	50	460 x 215 x 260	500	18
CMW / KBPC-W	195 x 195 x 40	50	460 x 215 x 260	500	16.5
KBPC-P / CP-15/25/35/50	195 x 195 x 40	50	460 x 215 x 260	500	14.5
KBPC-PW / CPW-15/25/35/50	195 x 195 x 40	50	460 x 215 x 260	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)
<b>Reel Packing</b>							
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
MINHMELF	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 (pcs)	COMPONENT SPACE (m/m)	TAPE SPACE (m/m)	BOX SIZE (m/m)	CARTON SIZE (m/m)	CARTON (EA)	APPROX. GROSS WEIGHT (Kg)
<b>Ammunition Packing</b>							
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	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 = 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 <sup>2</sup> 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)