



TABLE OF CONTENTS

1.DATA SHEET

PAGE 1

2.MARKING

PAGE 6

3.TAPING

PAGE 7

4.PACKING

PAGE 8

5.HIGH RELIABILITY TEST SPEC.

PAGE 13



3.0SMCJ SERIES

SURFACE MOUNT TRANSIENT VOLTAGE SUPPRESSOR PEAK PULSE POWER 3000 Watts

STAND-OFF VOLTAGE

5.0 to 220 Volts

SMC / DO-214AB

Unit: inch (mm)

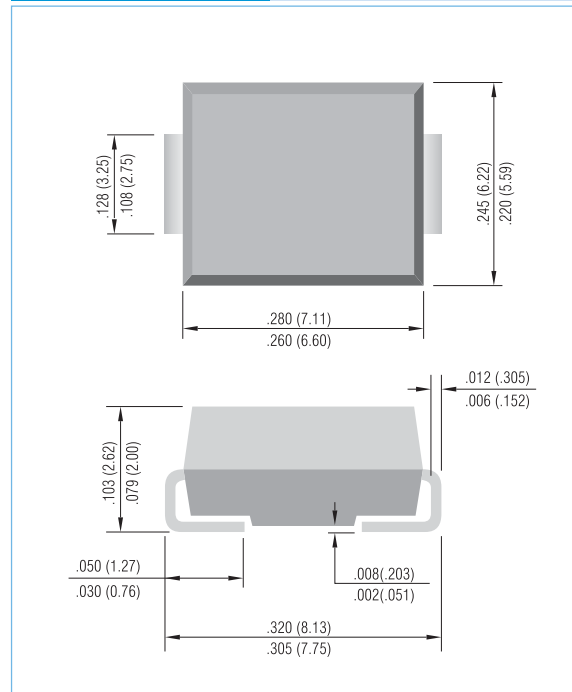
Recognized File # E210467

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
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

- Case: JEDEC DO-214AB, Molded plastic over passivated junction.
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes positive end (cathode)
- Standard Packaging: 16mm tape (EIA-481)
- Weight: 0.0082 ounce, 0.2325 gram



DEVICES FOR BIPOLAR APPLICATIONS

For Bidirectional use C or CA Suffix for types 3.0SMCJ5.0 thru types 3.0SMCJ220.
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}	3000	Watts
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) (Notes 2,3)	I _{FSM}	200	Amps
Peak Pulse Current on 10/1000 μ s waveform (Note 1) Fig.3	I _{PPM}	see Table 1	Amps
Typical Thermal Resistance Junction to Air	R θ_{JA}	25	°C / W
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 8.0mm² (.013mm thick) land areas.
3. Measured on 8.3ms, single half sine-wave or equivalent square wave, duty cycle= 4 pulses per minutes maximum.



3.0SMCJ SERIES

Part Number		V _{VRWM}	V _{BR} @ I _T			I _R @ V _{VRWM}		V _C @ I _{PP}		Marking Code	
			Min. V	Max. V	I _T mA	UNI- μA	BI- μA	V	A	UNI-	BI-
3000W Transient Voltage Suppressor											
3.0SMCJ5.0	3.0SMCJ5.0C	5	6.4	7.55	10	1000	2000	9.6	312.5	HDD	IDD
3.0SMCJ5.0A	3.0SMCJ5.0CA	5	6.4	7.25	10	1000	2000	9.2	326	HDE	IDE
3.0SMCJ6.0	3.0SMCJ6.0C	6	6.67	8.45	10	1000	2000	11.4	263.2	HDF	IDF
3.0SMCJ6.0A	3.0SMCJ6.0CA	6	6.67	7.67	10	1000	2000	10.3	291.3	HDG	IDG
3.0SMCJ6.5	3.0SMCJ6.5C	6.5	7.22	9.14	10	500	1000	12.3	243.9	HDH	IDH
3.0SMCJ6.5A	3.0SMCJ6.5CA	6.5	7.22	8.3	10	500	1000	11.2	267.9	HDK	IDK
3.0SMCJ7.0	3.0SMCJ7.0C	7	7.78	9.86	10	200	400	13.3	225.6	HDL	IDL
3.0SMCJ7.0A	3.0SMCJ7.0CA	7	7.78	8.95	10	200	400	12	250	HDM	IDM
3.0SMCJ7.5	3.0SMCJ7.5C	7.5	8.33	10.67	1	100	200	14.3	209.8	HDN	IDN
3.0SMCJ7.5A	3.0SMCJ7.5CA	7.5	8.33	9.6	1	100	200	12.9	232.6	HDP	IDP
3.0SMCJ8.0	3.0SMCJ8.0C	8	8.89	11.3	1	50	100	15.00	200	HDQ	IDQ
3.0SMCJ8.0A	3.0SMCJ8.0CA	8	8.89	10.23	1	50	100	13.6	220.6	HDR	IDR
3.0SMCJ8.5	3.0SMCJ8.5C	8.5	9.44	11.92	1	25	50	15.9	188.8	HDS	IDS
3.0SMCJ8.5A	3.0SMCJ8.5CA	8.5	9.44	10.82	1	25	50	14.4	208.4	HDT	IDT
3.0SMCJ9.0	3.0SMCJ9.0C	9	10	12.6	1	10	20	16.9	177.4	HDU	IDU
3.0SMCJ9.0A	3.0SMCJ9.0CA	9	10	11.5	1	10	20	15.4	194.8	HDV	IDV
3.0SMCJ10	3.0SMCJ10C	10	11.1	14.1	1	3	3	18.8	159.6	HDW	IDW
3.0SMCJ10A	3.0SMCJ10CA	10	11.1	12.8	1	3	3	17	176.4	HDX	IDX
3.0SMCJ11	3.0SMCJ11C	11	12.2	15.4	1	3	3	20.1	149.2	HDY	IDY
3.0SMCJ11A	3.0SMCJ11CA	11	12.2	14	1	3	3	18.2	184.8	HDZ	IDZ
3.0SMCJ12	3.0SMCJ12C	12	13.3	16.9	1	3	3	22	136.4	HED	IED
3.0SMCJ12A	3.0SMCJ12CA	12	13.3	15.3	1	3	3	19.9	150.6	HEE	IEE
3.0SMCJ13	3.0SMCJ13C	13	14.4	18.2	1	3	3	23.8	126	HEF	IEF
3.0SMCJ13A	3.0SMCJ13CA	13	14.4	16.5	1	3	3	21.5	139.4	HEG	IEG
3.0SMCJ14	3.0SMCJ14C	14	15.6	19.8	1	3	3	25.8	116.2	HEH	IEH
3.0SMCJ14A	3.0SMCJ14CA	14	15.6	17.9	1	3	3	23.2	129.4	HEK	IEK
3.0SMCJ15	3.0SMCJ15C	15	16.7	21.1	1	3	3	26.9	111.6	HEL	IEL
3.0SMCJ15A	3.0SMCJ15CA	15	16.7	19.2	1	3	3	24.4	123	HEM	IEM
3.0SMCJ16	3.0SMCJ16C	16	17.8	22.6	1	3	3	28.8	104.2	HEN	IEN
3.0SMCJ16A	3.0SMCJ16CA	16	17.8	20.5	1	3	3	26	115.4	HEP	IEP
3.0SMCJ17	3.0SMCJ17C	17	18.9	23.9	1	3	3	30.5	98.4	HEQ	IEQ
3.0SMCJ17A	3.0SMCJ17CA	17	18.9	21.7	1	3	3	27.6	106.6	HER	IER
3.0SMCJ18	3.0SMCJ18C	18	20	25.3	1	3	3	32.2	93.2	HES	IES
3.0SMCJ18A	3.0SMCJ18CA	18	20	23.3	1	3	3	29.2	102.8	HET	IET
3.0SMCJ20	3.0SMCJ20C	20	22.2	28.1	1	3	3	35.8	83.8	HEU	IEU
3.0SMCJ20A	3.0SMCJ20CA	20	22.2	25.5	1	3	3	32.4	92.6	HEV	IEV
3.0SMCJ22	3.0SMCJ22C	22	24.4	30.9	1	3	3	39.4	76.2	HEW	IEW
3.0SMCJ22A	3.0SMCJ22CA	22	24.4	28	1	3	3	35.5	84.4	HEX	IEX
3.0SMCJ24	3.0SMCJ24C	24	26.7	33.8	1	3	3	43	69.8	HEY	IEY
3.0SMCJ24A	3.0SMCJ24CA	24	26.7	30.7	1	3	3	38.9	77.2	HEZ	IEZ
3.0SMCJ26	3.0SMCJ26C	26	28.9	36.6	1	3	3	46.6	64.4	HFD	IFD
3.0SMCJ26A	3.0SMCJ26CA	26	28.9	33.2	1	3	3	42.1	71.2	HFE	IFE
3.0SMCJ28	3.0SMCJ28C	28	31.1	39.4	1	3	3	50	60	HFF	IFF
3.0SMCJ28A	3.0SMCJ28CA	28	31.1	35.8	1	3	3	45.4	66	HFG	IFG
3.0SMCJ30	3.0SMCJ30C	30	33.3	42.2	1	3	3	53.5	56	HFH	IFH
3.0SMCJ30A	3.0SMCJ30CA	30	33.3	38.3	1	3	3	48.4	62	HFK	IFK
3.0SMCJ33	3.0SMCJ33C	33	36.7	46.5	1	3	3	59	50.4	HFL	IFL
3.0SMCJ33A	3.0SMCJ33CA	33	36.7	42.2	1	3	3	53.3	56.2	HFM	IFM
3.0SMCJ36	3.0SMCJ36C	36	40	50.7	1	3	3	64.3	46.6	HFN	IFN
3.0SMCJ36A	3.0SMCJ36CA	36	40	46	1	3	3	58.1	51.6	HFP	IFP
3.0SMCJ40	3.0SMCJ40C	40	44.4	56.3	1	3	3	71.4	42	HFQ	IFQ
3.0SMCJ40A	3.0SMCJ40CA	40	44.4	51.1	1	3	3	64.5	46.4	HFR	IFR
3.0SMCJ43	3.0SMCJ43C	43	47.8	60.5	1	3	3	76.7	39.2	HFS	IFS



3.0SMCJ 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	μA	μA	V	A	UNI-	BI-	
3000W Transient Voltage Suppressor												
3.0SMCJ43A	3.0SMCJ43CA	43	47.8	54.9	1	3	3	69.4	43.2	HFT	IFT	
3.0SMCJ45	3.0SMCJ45C	45	50	63.3	1	3	3	80.3	37.4	HFU	IFU	
3.0SMCJ45A	3.0SMCJ45CA	45	50	57.5	1	3	3	72.7	41.2	HFV	IFV	
3.0SMCJ48	3.0SMCJ48C	48	53.3	67.5	1	3	3	85.5	35	HFV	IFV	
3.0SMCJ48A	3.0SMCJ48CA	48	53.3	61.3	1	3	3	77.4	38.8	HFX	IFX	
3.0SMCJ51	3.0SMCJ51C	51	56.7	71.8	1	3	3	91.1	37	HFY	IFY	
3.0SMCJ51A	3.0SMCJ51CA	51	56.7	65.2	1	3	3	82.4	36.4	HFZ	IFZ	
3.0SMCJ54	3.0SMCJ54C	54	60	76	1	3	3	96.3	31.2	HGD	IGD	
3.0SMCJ54A	3.0SMCJ54CA	54	60	69	1	3	3	87.1	34.4	HGE	IGE	
3.0SMCJ58	3.0SMCJ58C	58	64.4	81.6	1	3	3	103	39.2	HGF	IGF	
3.0SMCJ58A	3.0SMCJ58CA	58	64.4	74.1	1	3	3	93.6	32	HGG	IGG	
3.0SMCJ60	3.0SMCJ60C	60	66.7	84.5	1	3	3	107	28	HGH	IGH	
3.0SMCJ60A	3.0SMCJ60CA	60	66.7	76.7	1	3	3	96.8	31	HGK	IGK	
3.0SMCJ64	3.0SMCJ64C	64	71.1	90.1	1	3	3	114	26.4	HGL	IGL	
3.0SMCJ64A	3.0SMCJ64CA	64	71.1	81.8	1	3	3	103	29.2	HGM	IGM	
3.0SMCJ70	3.0SMCJ70C	70	77.8	98.6	1	3	3	125	24	HGN	IGN	
3.0SMCJ70A	3.0SMCJ70CA	70	77.8	89.5	1	3	3	113	26.6	HGP	IGP	
3.0SMCJ75	3.0SMCJ75C	75	83.3	105.7	1	3	3	134	22.4	HGQ	IGQ	
3.0SMCJ75A	3.0SMCJ75CA	75	83.3	95.8	1	3	3	121	24.8	HGR	IGR	
3.0SMCJ78	3.0SMCJ78C	78	86.7	109.8	1	3	3	139	21.6	HGS	IGS	
3.0SMCJ78A	3.0SMCJ78CA	78	86.7	99.7	1	3	3	126	22.8	HGT	IGT	
3.0SMCJ85	3.0SMCJ85C	85	94.4	119.2	1	3	3	151	19.8	HGU	IGU	
3.0SMCJ85A	3.0SMCJ85CA	85	94.4	108.2	1	3	3	137	20.8	HGV	IGV	
3.0SMCJ90	3.0SMCJ90C	90	100	126.5	1	3	3	160	18.8	HGW	IGW	
3.0SMCJ90A	3.0SMCJ90CA	90	100	115.5	1	3	3	146	20.6	HGX	IGX	
3.0SMCJ100	3.0SMCJ100C	100	111	141	1	3	3	179	16.6	HGY	IGY	
3.0SMCJ100A	3.0SMCJ100CA	100	111	128	1	3	3	162	18.6	HGZ	IGZ	
3.0SMCJ110	3.0SMCJ110C	110	122	154.5	1	3	3	196	15.4	HHH	IHH	
3.0SMCJ110A	3.0SMCJ110CA	110	122	140.5	1	3	3	177	16.8	HHH	IHH	
3.0SMCJ120	3.0SMCJ120C	120	133	169	1	3	3	214	14	HHF	IHF	
3.0SMCJ120A	3.0SMCJ120CA	120	133	153	1	3	3	193	15.6	HHG	IHG	
3.0SMCJ130	3.0SMCJ130C	130	144	182.5	1	3	3	231	13	HHH	IHH	
3.0SMCJ130A	3.0SMCJ130CA	130	144	165.5	1	3	3	209	14.4	HHK	IHK	
3.0SMCJ150	3.0SMCJ150C	150	167	211.5	1	3	3	268	11.2	HHL	IHL	
3.0SMCJ150A	3.0SMCJ150CA	150	167	192.5	1	3	3	243	12.4	HHM	IHM	
3.0SMCJ160	3.0SMCJ160C	160	178	226	1	3	3	287	10.4	HHN	IHN	
3.0SMCJ160A	3.0SMCJ160CA	160	178	205	1	3	3	259	11.6	HHP	IHP	
3.0SMCJ170	3.0SMCJ170C	170	189	239.5	1	3	3	304	9.8	HHQ	IHQ	
3.0SMCJ170A	3.0SMCJ170CA	170	189	217.5	1	3	3	275	11	HHR	IHR	
3.0SMCJ180	3.0SMCJ180C	180	198	253.8	1	3	3	322	9.3	HHS	IHS	
3.0SMCJ180A	3.0SMCJ180CA	180	198	230.4	1	3	3	292	10.3	HHT	IHT	
3.0SMCJ190	3.0SMCJ190C	190	209	267.9	1	3	3	340	8.8	HHU	IHU	
3.0SMCJ190A	3.0SMCJ190CA	190	209	243.2	1	3	3	308	9.7	HHV	IHV	
3.0SMCJ200	3.0SMCJ200C	200	220	282	1	3	3	358	8.4	HHW	IHW	
3.0SMCJ200A	3.0SMCJ200CA	200	220	256	1	3	3	324	9.3	HHX	IHX	
3.0SMCJ210	3.0SMCJ210C	210	231	296.1	1	3	3	376	7.8	HHY	IHY	
3.0SMCJ210A	3.0SMCJ210CA	210	231	268.8	1	3	3	340	8.8	HHZ	IHZ	
3.0SMCJ220	3.0SMCJ220C	220	242	310.2	1	3	3	394	7.6	HID	ID	
3.0SMCJ220A	3.0SMCJ220CA	220	242	281.6	1	3	3	356	8.4	HIE	IE	



3.0SMCJ SERIES

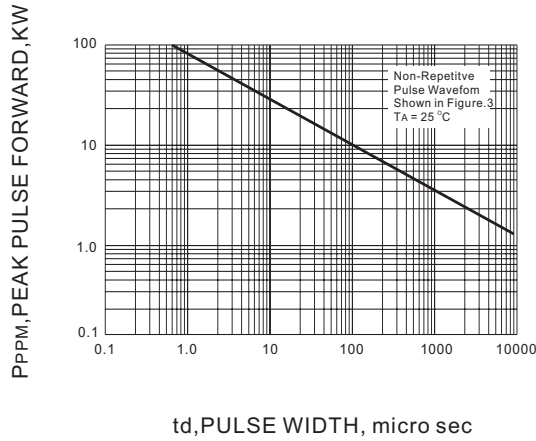


Fig.1 PEAK PULSE POWER RATING CURVE

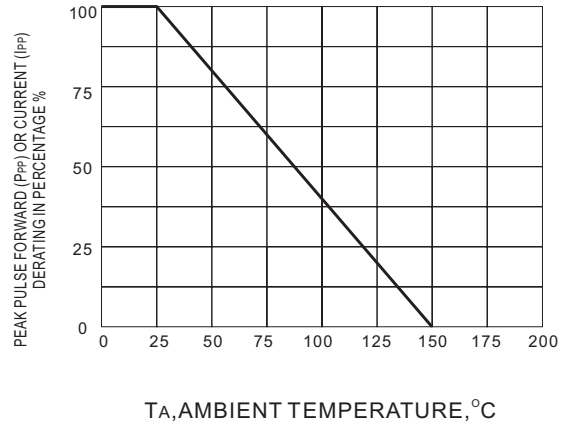


Fig.2 DERATING CURVE

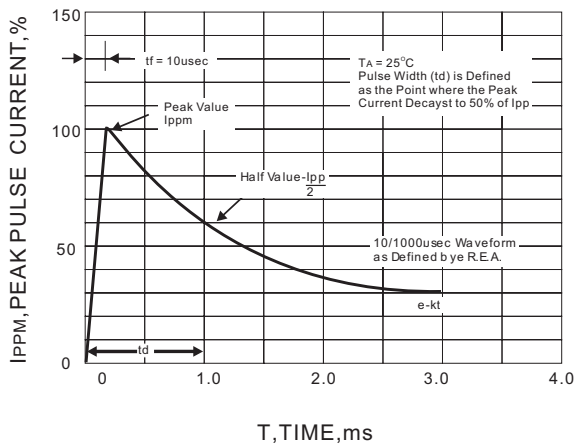


Fig.3 PULSE WAVEFORM

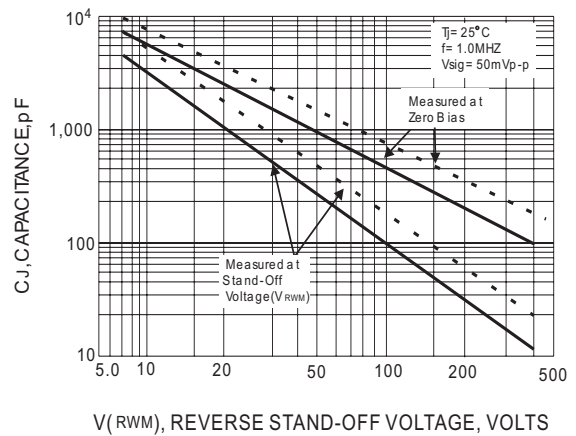


Fig.4 TYPICAL CAPACITANCE

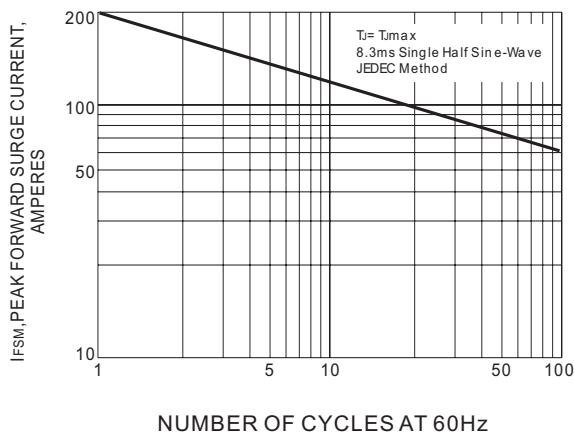
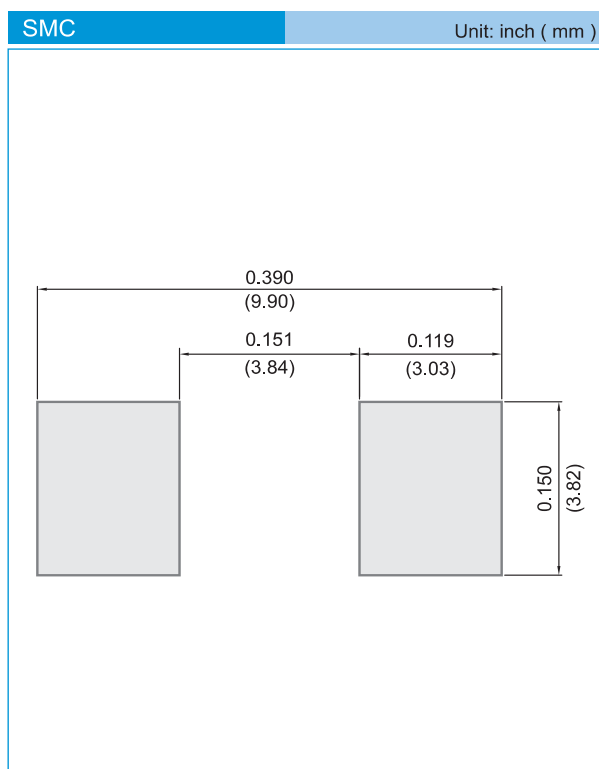


Fig.5 MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



3.0SMCJ SERIES

MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
 - T/R - 3K per 13" plastic Reel
 - T/R - 0.5K per 7" plastic Reel

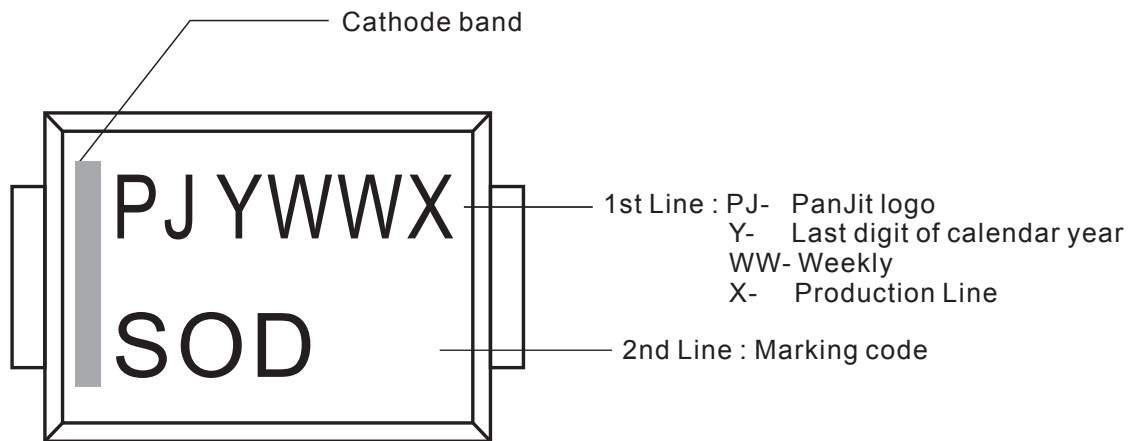
LEGAL STATEMENT

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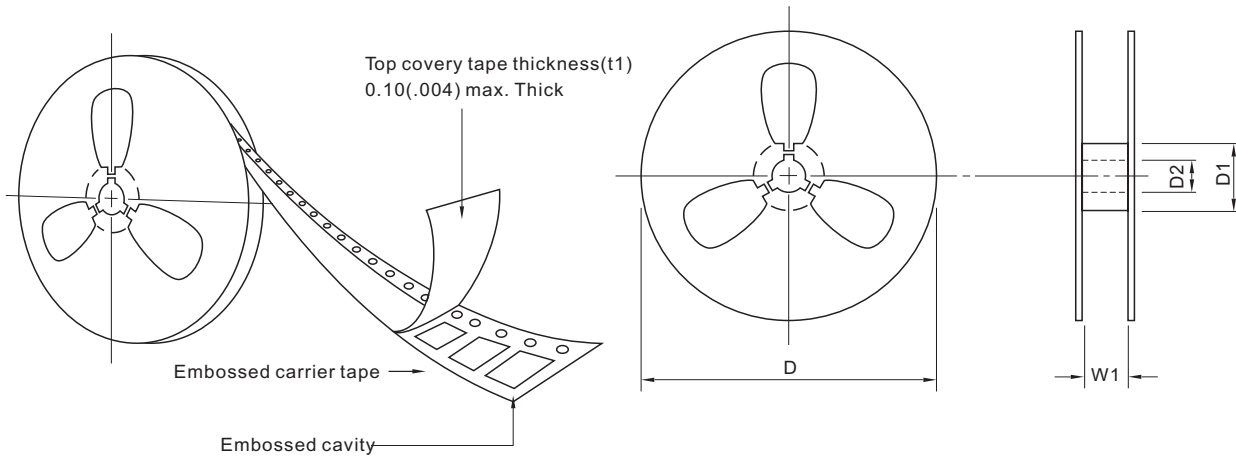
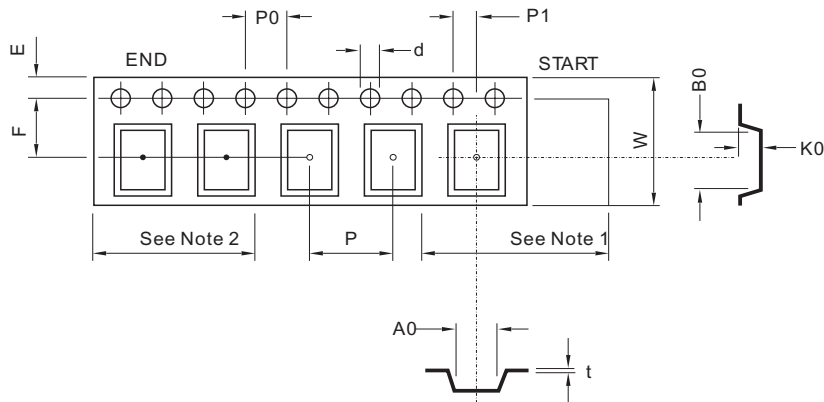


2. MARKING





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)

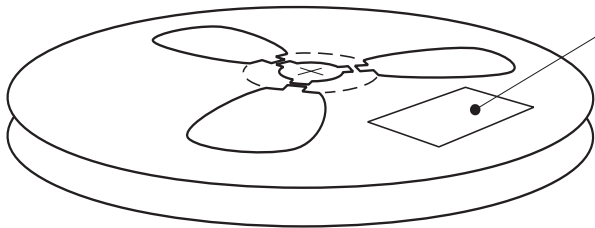
Note:

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.

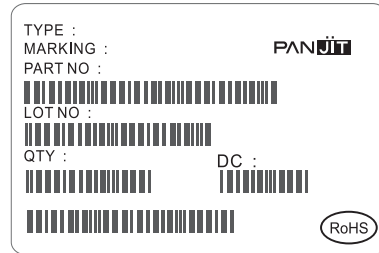


4. PACKING

REEL PACKING

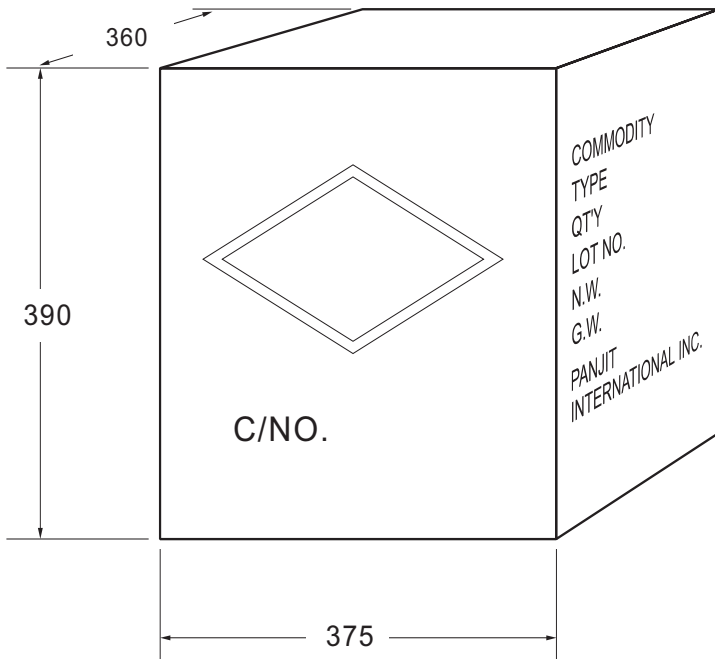


LABEL TYPE



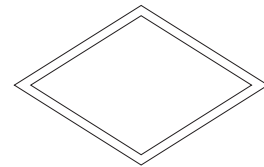
Quantity per Reel: 3,000 pcs

CARTON



Box Dimensions : mm
Quantity per Box: 42,000pcs

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	1,000	459 x 214 x 256	50,000	12.7
AG / RB-10 (WOB)	258 x 190 x 77	1,000	395 x 270 x 400	10,000	15
AM	258 x 190 x 77	1,000	395 x 270 x 400	10,000	15
CM / KBPC	193 x 193 x 46	50	405 x 210 x 265	500	17
CMW / KBPC-W	193 x 193 x 46	50	405 x 210 x 265	500	17
KBPC-P /CP	193 x 193 x 46	50	405 x 210 x 265	500	9.5
KBPC-PW /CPW	193 x 193 x 46	50	405 x 210 x 265	500	9.5
CP-3 / 6 (K-3 / K-6)	219 x 115 x 90	200	600 x 235 x 198	2,000	7.3/8.8
CP-8 / 10 (K-8)	219 x 115 x 90	200	600 x 235 x 198	2,000	13.8
DIP	-	-	45 x 214 x 256	12,000	6.5
DO-15	200 x 85 x 25	1,000	459 x 214 x 256	40,000	20.7
DO-201AD	200 x 85 x 40	500	45 x 214 x 256	12,500	16
DO-201AE	200 x 85 x 40	500	45 x 214 x 256	12,500	16
DO-34	240 x 100 x 90	2,000	406 x 335 x 257	120,000	14.5
DO-35	240 x 100 x 90	2,000	406 x 335 x 257	120,000	17.1
DO-41	198 x 84 x 20	1,000	459 x 214 x 265	50,000	19.3
DO-41G	240 x 100 x 90	1,000	406 x 335 x 257	60,000	18.5
FL	230 x 230 x 50	500	495 x 245 x 180	3,000	18.4
GBJ (TUBE)	556 x 150 x 100	800	578 x 340 x 235	3,200	25.5
GBJ (BOX)	350 x 337 x 44	600	375 x 360 x 213	2,400	14.3
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	10.6
GBPC	193 x 193 x 46	50	405 x 210 x 265	500	17
GBPCW	193 x 193 x 46	50	405 x 210 x 265	500	17
GBU (TUBE)	488 x 150 x 100	800	510 x 310 x 235	3,200	22.6
GBU (BOX)	350 x 337 x 44	800	375 x 360 x 213	3,200	15.2
KBJ	220 x 176 x 45	200	375 x 230 x 260	2,000	15
KBPF	242 x 208 x 35	500	426 x 252 x 365	10,000	19.2
KBU	276 x 158 x 59	200	493 x 287 x 320	3,000	24
P-600	208 x 90 x 83	500	459 x 214 x 256	5,000	11.3
R-1	198 x 84 x 20	1,000	459 x 214 x 256	50,000	12.7
TO-220	540 x 145 x 85	2,000	555 x 306 x 200	8,000	20.5
ITO-220	540 x 145 x 85	2,000	555 x 306 x 200	8,000	22.9
TO-251AB	555 x 145 x 85	8,400	555 x 306 x 200	33,600	22
TO-3P / TO-247AD	-	-	536 x 243 x 100	1,500	13.9
TO-3PS / TO-247S	-	-	511 x 243 x 107	1,500	12.2



Reel Packing

PACKAGE	REEL SIZE	REEL	COMPONENT SPACE	TAPE SPACE	REEL DIA	CARTON SIZE	CARTON	APPROX. GROSS WEIGHT
	(inch)	(pcs)	(m/m)	(m/m)	(m/m)	(m/m)	(EA)	(Kg)
Reel Packing								
R-1	-	5,000	5.0	52	330	340 x 340 x 410	25,000	7.8
A-405	-	5,000	5.0	52	330	340 x 340 x 410	25,000	11
DO-15	-	4,000	5.0	52	330	340 x 340 x 410	20,000	11.4
DO-201AD	-	1,250	10.0	52	330	340 x 340 x 410	6,250	9.2
DO-201AE	-	1,250	10.0	52	330	340 x 340 x 410	6,250	9.2
DO-34	15	10,000	5.0	52	360	360 x 360 x 395	50,000	10.1
DO-35	15	10,000	5.0	52	360	360 x 360 x 395	50,000	11.2
DO-41	-	5,000	5.0	52	330	340 x 340 x 410	25,000	11.8
DO-41G	15	5,000	5.0	52	360	360 x 360 x 395	25,000	10.9
P-600	-	800	10.0	52	330	340 x 340 x 410	4,000	9.8
DPAK/TO-252	13	3,000	8.0	16	330	375 x 360 x 390	42,000	18.8
D2PAK/TO-263	13	800	16.0	24	330	375 x 360 x 390	6,400	14.4
MDI	13	3,000	8.0	12	330	375 x 360 x 390	48,000	14.7
SDIP	13	1,500	12.0	16	330	375 x 360 x 390	21,000	14.3
QUADRO-MELF	13	10,000	4.0	-	330	360 x 360 x 395	200,000	14.9
QUADRO-MELF	7	2,500	4.0	-	178	385 x 380 x 260	200,000	13.3
MELF/DL-41	13	5,000	4.0	-	330	360 x 360 x 395	100,000	23.5
MELF/DL-41	7	1,500	4.0	-	178	385 x 380 x 260	84,000	18.3
MICRO-MELF	13	10,000	4.0	-	330	360 x 360 x 395	200,000	11.5
MICRO-MELF	7	2,500	4.0	-	178	385 x 380 x 260	200,000	9.3
MINI-MELF	13	10,000	4.0	-	330	360 x 360 x 395	200,000	14.6
MINI-MELF	7	2500	4.0	-	178	385 x 380 x 260	200,000	12.7
SMA	13	7,500	4.0	12	330	375 x 360 x 390	120,000	17.3
SMA	7	1,800	4.0	12	178	390 x 240 x 420	72,000	10
SMB	13	3,000	8.0	12	330	375 x 360 x 390	48,000	13.2
SMB	7	500	8.0	12	178	390 x 240 x 420	20,000	6.5
SMC	13	3,000	8.0	16	330	375 x 360 x 390	42,000	18
SMC	7	500	8.0	16	178	390 x 240 x 420	15,000	8.3
SOD-123	13	10,000	4.0	8	330	375 x 360 x 213	120,000	6.5
SOD-123	7	3,000	4.0	8	178	390 x 270 x 400	240,000	9.9
SOD-123FL	13	10,000	4.0	8	330	375 x 360 x 213	120,000	7.2
SOD-123FL	7	3,000	4.0	8	178	390 x 270 x 400	240,000	10.6



Reel Packing

PACKAGE	REEL SIZE	REEL	COMPONENT SPACE	TAPE SPACE	REEL DIA	CARTON SIZE	CARTON	APPROX. GROSS WEIGHT
	(inch)	(pcs)	(m/m)	(m/m)	(m/m)	(m/m)	(EA)	(Kg)
Reel Packing								
SOD-323	13	12,000	4.0	8	330	375 x 360 x 213	144,000	5.9
SOD-323	7	5,000	4.0	8	178	390 x 270 x 400	400,000	9.4
SOD-523	13	12,000	4.0	8	330	375 x 360 x 213	144,000	5.4
SOD-523	7	5,000	4.0	8	178	390 x 270 x 400	400,000	9.1
SOD-723	7	8,000	2.0	8	178	390 x 270 x 400	640,000	8.5
SOD-923	7	8,000	2.0	8	178	390 x 270 x 400	640,000	7.7
SOT-23	13	12,000	4.0	8	330	375 x 360 x 213	144,000	7
SOT-23	7	3,000	4.0	8	178	390 x 270 x 400	240,000	8.3
SOT-323	13	12,000	4.0	8	330	375 x 360 x 213	144,000	6.1
SOT-323	7	3,000	4.0	8	178	390 x 270 x 400	240,000	7.9
SOT-363	13	10,000	4.0	8	330	375 x 360 x 213	120,000	7.1
SOT-363	7	3,000	4.0	8	178	390 x 270 x 400	240,000	10.2
SOT-23 (ESD)	7	3,000	4.0	8	178	455 x 270 x 440	240,000	9.5
SOT-323 (ESD)	7	3,000	4.0	8	178	455 x 270 x 440	240,000	9.1
SOT-363 (ESD)	7	3,000	4.0	8	178	455 x 270 x 440	240,000	10
SOT-353	13	10,000	4.0	8	330	375 x 360 x 213	120,000	7.2
SOT-353	7	3,000	4.0	8	178	390 x 270 x 400	240,000	10
SOT-553	13	10,000	4.0	8	330	375 x 360 x 213	120,000	5.2
SOT-553	7	4,000	4.0	8	178	390 x 270 x 400	320,000	9.4
SOT-563	13	10,000	4.0	8	330	375 x 360 x 213	120,000	5.2
SOT-563	7	4,000	4.0	8	178	390 x 270 x 400	320,000	9.4
SOT23-5L	13	10,000	4.0	8	330	375 x 360 x 213	120,000	7.9
SOT23-5L	7	3,000	4.0	8	178	390 x 270 x 400	240,000	14.5
SOT23-6L	13	10,000	4.0	8	330	375 x 360 x 213	120,000	7.9
SOT23-6L	7	3,000	4.0	8	178	390 x 270 x 400	240,000	14.5
SOT-143	13	10,000	4.0	8	330	375 x 360 x 213	120,000	7
SOT-143	7	3,000	4.0	8	178	390 x 270 x 400	240,000	12.8
SOIC-08	13	3,000	8.0	12	330	375 x 360 x 213	48,000	14.2
QFN 1.2 x 1.5	7	3,000	4.0	8	178	390 x 270 x 400	240,000	7.1
QFN 1.6 x 1.6	7	4,000	4.0	8	178	390 x 240 x 420	200,000	7.8
QFN 2.0 x 2.0	7	3,000	4.0	8	178	390 x 270 x 400	240,000	7.1



Ammunition Packing

PACKAGE	AMMO	COMPONENT SPACE	TAPE SPACE	BOX SIZE	CARTON	CARTON	APPROX. GROSS WEIGHT
	(PCS)	(m/m)	(m/m)	(m/m)	(m/m)	(E/A)	(Kg)
Ammunition Packing							
A-405	5,000	5	26	255 x 47 x 150	339 x 276 x 330	60,000	12.4
A-405	5,000	5	52	255 x 75 x 150	339 x 276 x 330	40,000	16
DO-15	3,000	5	52	255 x 75 x 150	339 x 276 x 330	24,000	13.3
DO-201AD	1,250	10	52	255 x 47 x 122	339 x 276 x 330	10,000	13.4
DO-201AE	1,250	10	52	255 x 47 x 122	339 x 276 x 330	10,000	13.4
DO-34	5,000	5	26	248 x 80 x 48	406 x 335 x 257	150,000	14.6
DO-34	5,000	5	52	248 x 80 x 75	406 x 335 x 257	100,000	12.7
DO-35	5,000	5	26	248 x 80 x 48	406 x 335 x 257	150,000	16.7
DO-35	5,000	5	52	248 x 80 x 75	406 x 335 x 257	100,000	15.2
DO-41	5,000	5	52	255 x 75 x 150	339 x 276 x 330	40,000	16
DO-41G	2,500	5	26	248 x 80 x 48	406 x 335 x 257	75,000	17.1
DO-41G	2,500	5	52	248 x 80 x 75	406 x 335 x 257	50,000	15.7
P-600	400	10	52	255 x 47 x 122	339 x 276 x 330	3,200	8.1
R-1	3,000	5	26	255 x 47 x 73	310 x 268 x 170	36,000	6.3
R-1	3,000	5	52	256 x 73 x 73	310 x 268 x 170	24,000	6.4
R-1	5,000	5	52	255 x 73 x 122	339 x 276 x 274	40,000	10.3



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 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 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 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 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 +/- 5°C MAX(NORMAL)