



TABLE OF CONTENTS

1.DATA SHEET

PAGE 1

2.MARKING

PAGE 4

3.TAPING

PAGE 5

4.PACKING

PAGE 6

5.HIGH RELIABILITY TEST SPEC.

PAGE 11



FR1A~FR1J

SURFACE MOUNT FAST RECOVERY RECTIFIER

VOLTAGE 50 to 600 Volts **CURRENT** 1.0 Ampere

SMB / DO-214AA

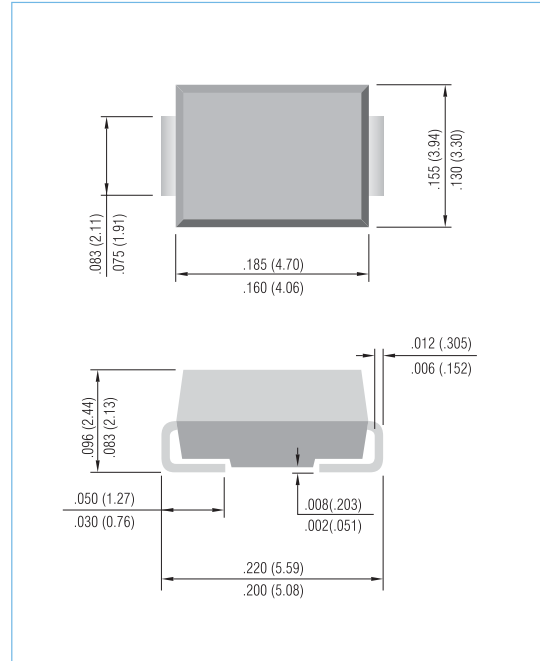
Unit: inch (mm)

FEATURES

- For surface mounted applications
- Low profile package
- Built-in strain relief
- Easy pick and place
- Fast Recovery times for high efficiency
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- Glass passivated junction
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

- Case: JEDEC DO-214AA molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Indicated by cathode band
- Standard packaging: 12mm tape (EIA-481)
- Weight: 0.0032 ounce, 0.092 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

| PARAMETER | SYMBOL | FR1A | FR1B | FR1D | FR1G | FR1J | UNITS |
|---|--|-------------|------|------|------|------|-----------------------------|
| Maximum Recurrent Peak Reverse Voltage | V_{RRM} | 50 | 100 | 200 | 400 | 600 | V |
| Maximum RMS Voltage | V_{RMS} | 35 | 70 | 140 | 280 | 420 | V |
| Maximum DC Blocking Voltage | V_{DC} | 50 | 100 | 200 | 400 | 600 | V |
| Maximum Average Rectified Current at $T_L=90\text{ }^\circ\text{C}$ | $I_{F(AV)}$ | 1.0 | | | | | A |
| Peak Forward Surge Current :8.3ms single half sine-wave superimposed on rated load(JEDEC method) | I_{FSM} | 30 | | | | | A |
| Maximum Forward Voltage at 1.0A | V_F | 1.3 | | | | | V |
| Maximum DC Reverse Current $T_A=25\text{ }^\circ\text{C}$ at Rated DC Blocking Voltage $T_A=125\text{ }^\circ\text{C}$ | I_R | 1.0 150 | | | | | μA |
| Maximum Reverse Recovery Time (Note 1) | t_{rr} | 150 | | | | 250 | ns |
| Maximum Junction capacitance (Note 2) | C_J | 12 | | | | | pF |
| Typical Junction Resistance(Note 3) | $R_{\theta_{JA}}$ $R_{\theta_{JL}}$ | 100 32 | | | | | $^\circ\text{C} / \text{W}$ |
| Operating Junction and Storage Temperature Rating | T_J, T_{STG} | -50 to +150 | | | | | $^\circ\text{C}$ |

NOTES:1. Reverse Recovery Test Conditions: $I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $I_{rr}=0.25\text{A}$
2. Measured at 1 MHz and applied $V_r = 4.0$ volts.
3. 8.0 mm^2 (.013mm thick) land areas.



FR1A~FR1J

RATING AND CHARACTERISTIC CURVES

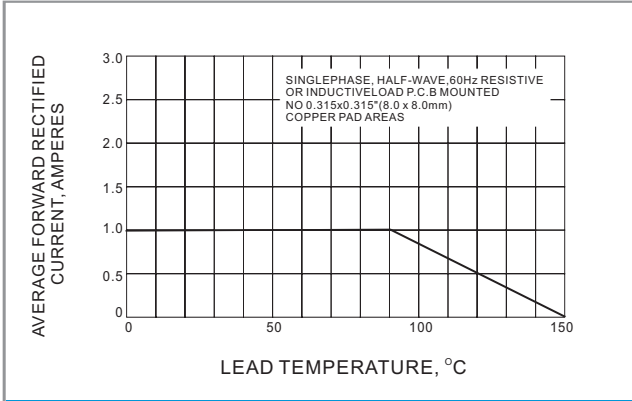


Fig.1 FORWARD CURRENT DERATING CURVE

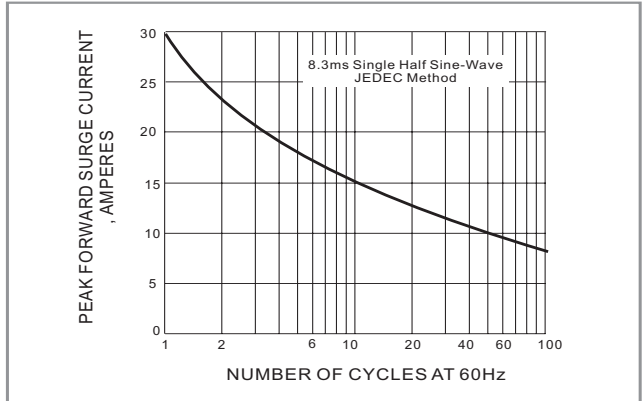


Fig.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

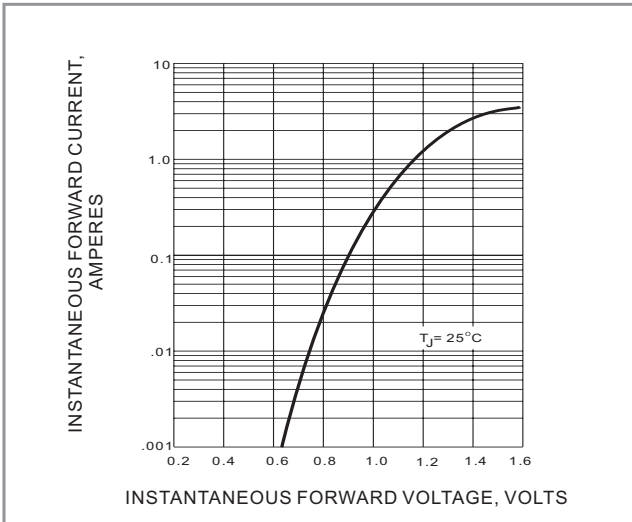


Fig.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

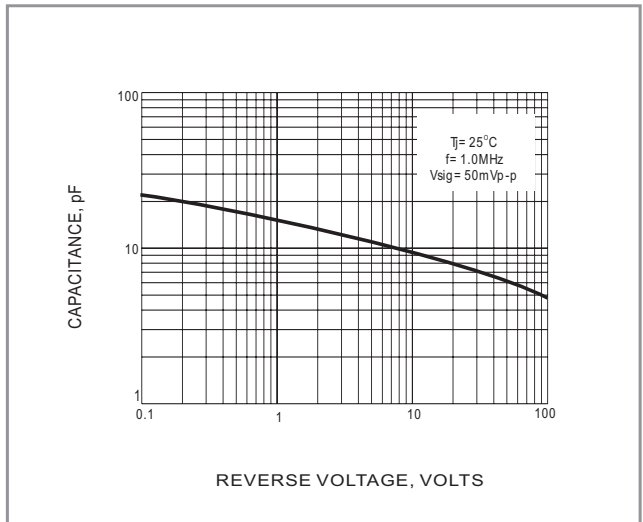


Fig.4 TYPICAL JUNCTION CAPACITANCE

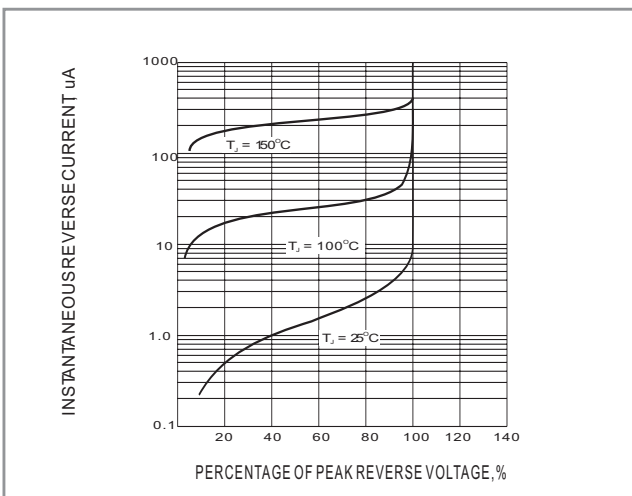
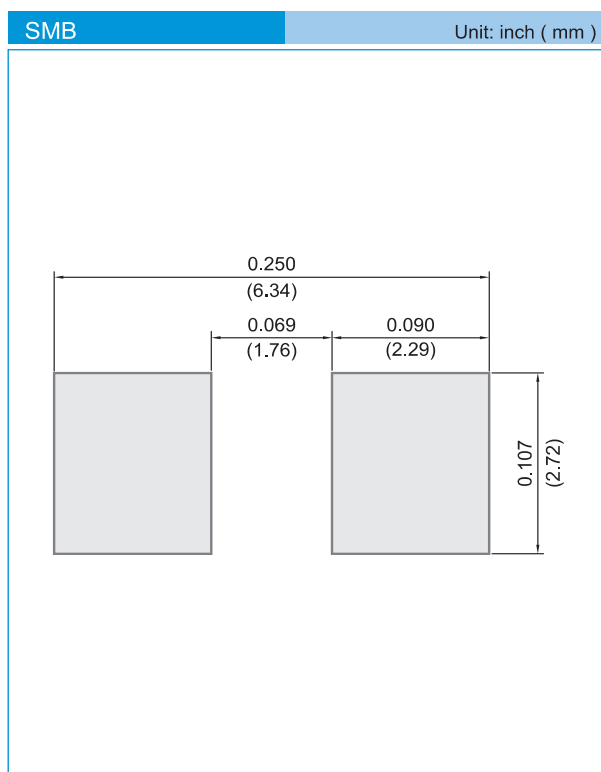


Fig.5-TYPICAL REVERSE CHARACTERISTIC



FR1A~FR1J

MOUNTING PAD LAYOUT



ORDER INFORMATION

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

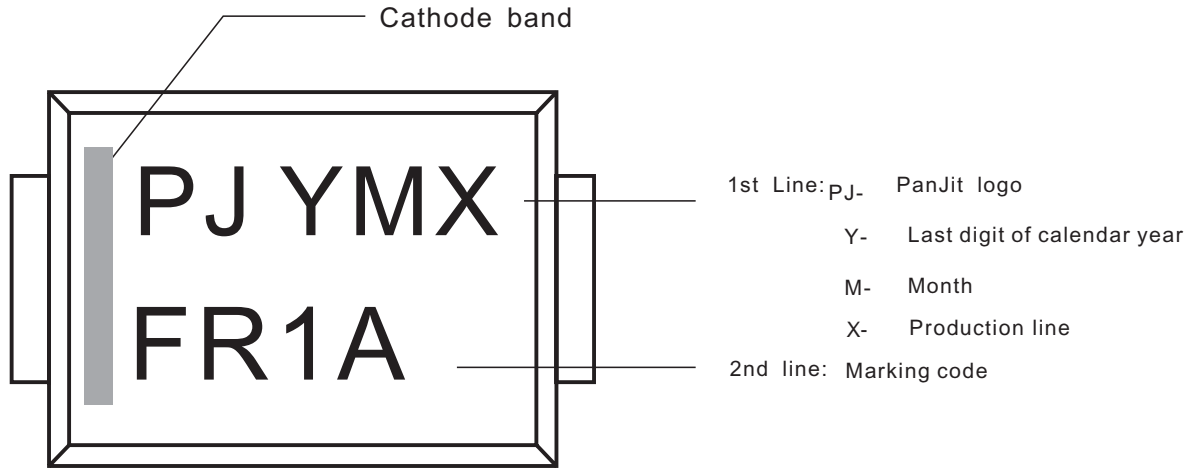
LEGAL STATEMENT

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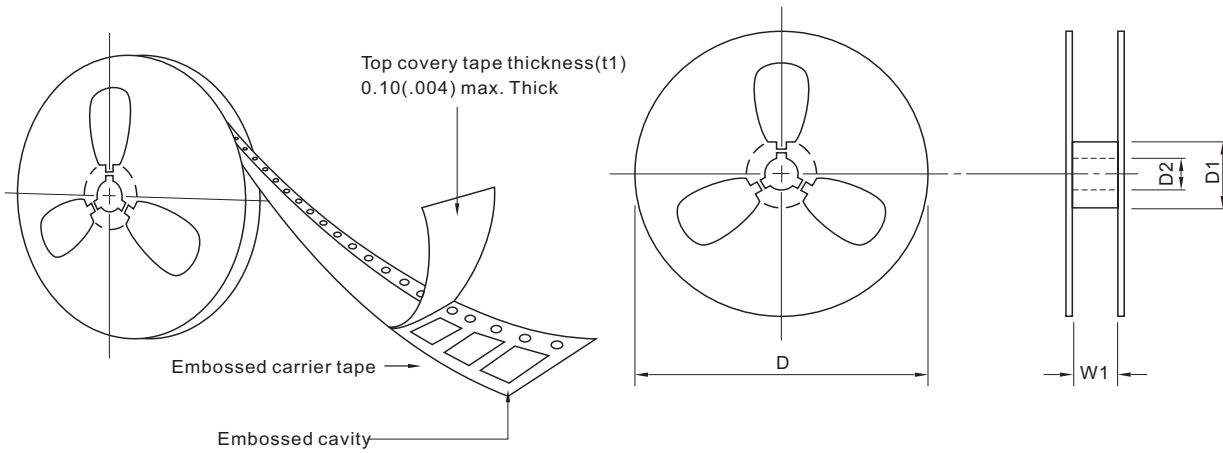
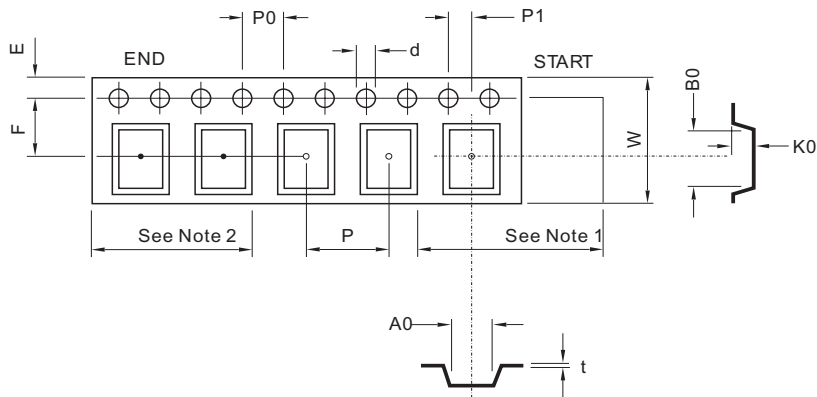


2. MARKING





3. TAPING



| SYMBOL | mm(inch) |
|-----------|--------------------------------|
| TYPE SIZE | 12.00 (0.472) |
| Ao | 3.81 ± 0.10 (0.15 ± 0.003) |
| Bo | 5.74 ± 0.10 (0.22 ± 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 ± 0.2 (0.51 ± 0.007) |
| E | 1.75 ± 0.10 (0.068 ± 0.003) |
| F | 5.50 ± 0.05 (0.21 ± 0.001) |
| Ko | 2.41 ± 0.10 (0.09 ± 0.003) |
| P | 8.00 ± 0.10 (0.31 ± 0.003) |
| Po | 4.00 ± 0.10 (0.15 ± 0.003) |
| P1 | 2.00 ± 0.05 (0.07 ± 0.001) |
| t | 0.26 ± 0.10 (0.01 ± 0.003) |
| W | 12.00 ± 3.00 (0.472 ± 0.118) |
| W1 | 14.40Maxum (0.56) |

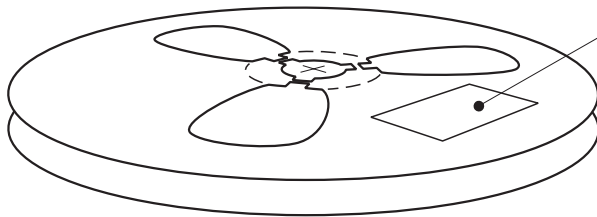
Note:

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.



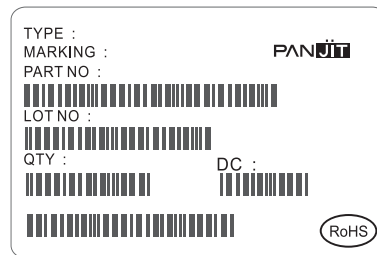
4. PACKING

REEL PACKING

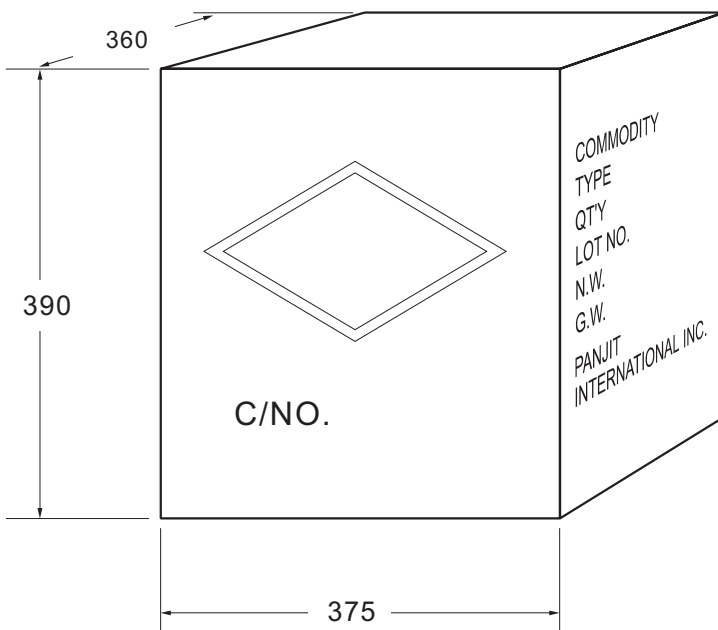


Quantity per Reel: 3,000 pcs

LABEL TYPE

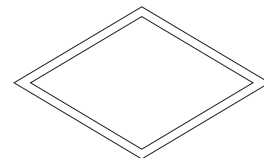


CARTON



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 | 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)