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ER800~ER806

SUPERFAST RECOVERY RECTIFIERS

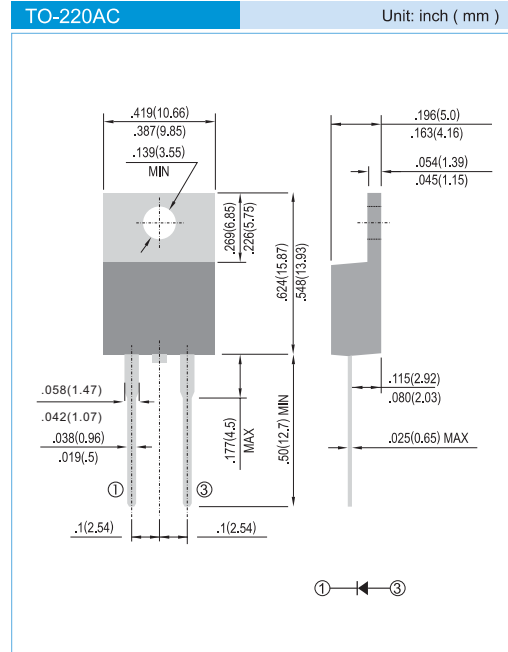
VOLTAGE 50 to 600 Volts **CURRENT** 8.0 Amperes

FEATURES

- Superfast recovery times-epitaxial construction.
- Low forward voltage, high current capability.
- Exceeds environmental standards of MIL-S-19500/228.
- Hermetically sealed.
- Low leakage.
- High surge capability.
- Plastic package has Underwriters Laboratories Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- Lead free in comply with EU RoHS 2002/95/EC directives

MECHANICAL DATA

- Case: Molded plastic, TO-220AC
- Terminals: Axial leads, solderable to MIL-STD-750, Method 2026
- Polarity: As marking
- Weight: 0.0655 ounces, 1.859 grams.



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
Resistive or inductive load, 60Hz.

| PARAMETER | SYMBOL | ER800 | ER801 | ER801A | ER802 | ER803 | ER804 | ER806 | UNITS |
|---|-----------------|-------------|-------|--------|-------|-------|-------|---------|----------------|
| Maximum Recurrent Peak Reverse Voltage | V_{RRM} | 50 | 100 | 150 | 200 | 300 | 400 | 600 | V |
| Maximum RMS Voltage | V_{RMS} | 35 | 70 | 105 | 140 | 210 | 280 | 420 | V |
| Maximum DC Blocking Voltage | V_{DC} | 50 | 100 | 150 | 200 | 300 | 400 | 600 | V |
| Maximum Average Forward Current at $T_c=75^\circ C$ | $I_{F(AV)}$ | 8.0 | | | | | | | A |
| Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method) | I_{FSM} | 125 | | | | | | | A |
| Maximum Forward Voltage at 8.0A (Note 1) | V_F | 0.95 | | | 1.3 | | 1.7 | V | |
| Maximum DC Reverse Current $T_j=25^\circ C$ at Rated DC Blocking Voltage $T_j=100^\circ C$ | I_R | 1.0 | | | 300 | | | μA | |
| Maximum Reverse Recovery Time (Note 1) | t_{rr} | 35 | | | 50 | | | ns | |
| Typical Junction capacitance (Note 2) | C_j | 65 | | | | | | | pF |
| Typical thermal Resistance (Note 3) | $R_{\theta JC}$ | 3.0 | | | | | | | $^\circ C / W$ |
| Operating Junction and Storage Temperature Range | T_j, T_{STG} | -55 to +150 | | | | | | | $^\circ C$ |

NOTES:

1. Pulse Test with PW=300 usec, 2% Duty Cycle.
2. Reverse Recovery Tset Conditions: $I_F=0.5A, I_R=1.0A, I_{rr}=0.25A$
3. Mounted on P.C. Board with 14mm² (.013mm thick) copper pad areas.



ER800~ER806

RATING AND CHARACTERISTIC CURVES

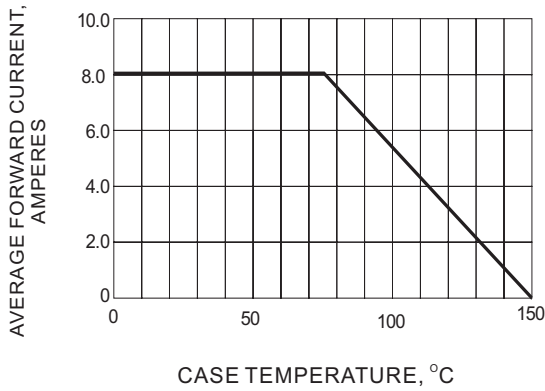


Fig.1-FORWARD CURRENT DERATING CURVE

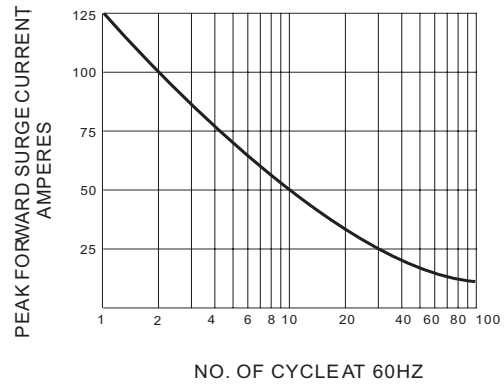


Fig.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

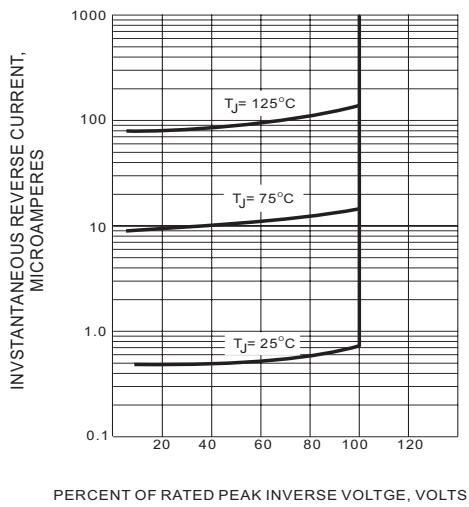


Fig.3-TYPICAL REVERSE CHARACTERISTICS

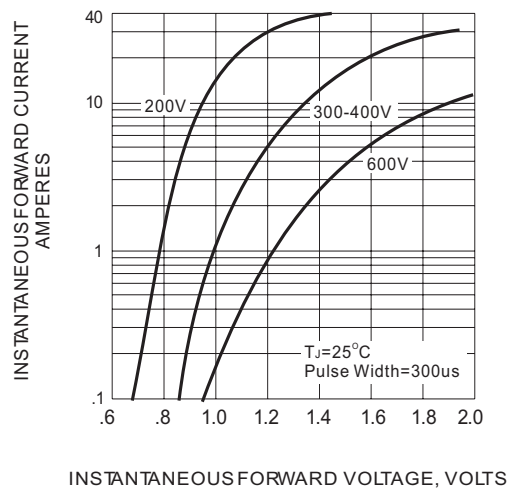


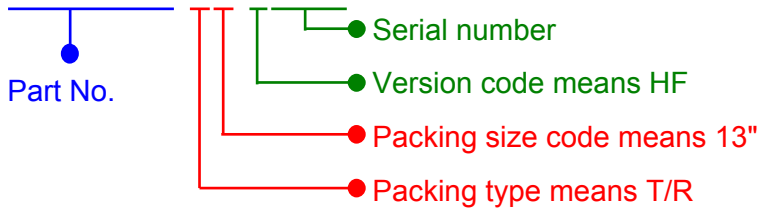
Fig.4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



ER800~ER806

For example :

RB500V-40_R2_00001



Part No_packing code_Version

ER800_T0_00001

ER800_T0_100A1

ER800_T0_10001

| Packing Code XX | | | | Version Code XXXXX | | |
|------------------------|----------------------|-------------------|----------------------|---------------------------|----------------------|---------------------------------------|
| Packing type | 1 st Code | Packing size code | 2 nd Code | HF or RoHS | 1 st Code | 2 nd ~5 th Code |
| T/B | A | N/A | 0 | HF | 0 | serial number |
| T/R | R | 7" | 1 | RoHS | 1 | serial number |
| B/P | B | 13" | 2 | | | |
| T/P | T | 26mm | X | | | |
| TRR | S | 52mm | Y | | | |
| TRL | L | PBCU | U | | | |
| FORMING | F | PBCD | D | | | |



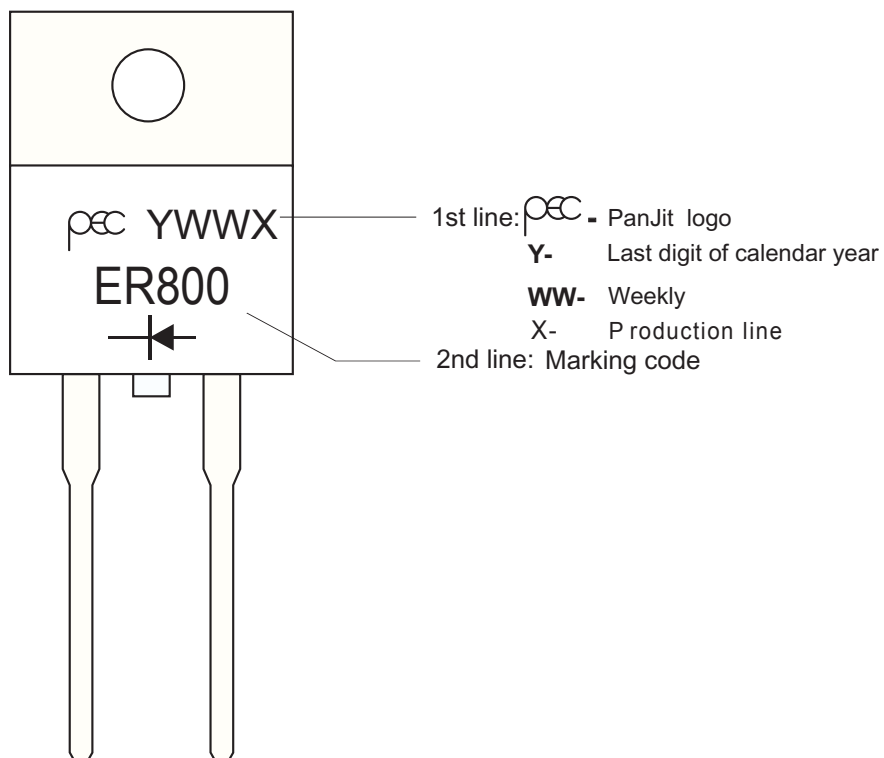
ER800~ER806

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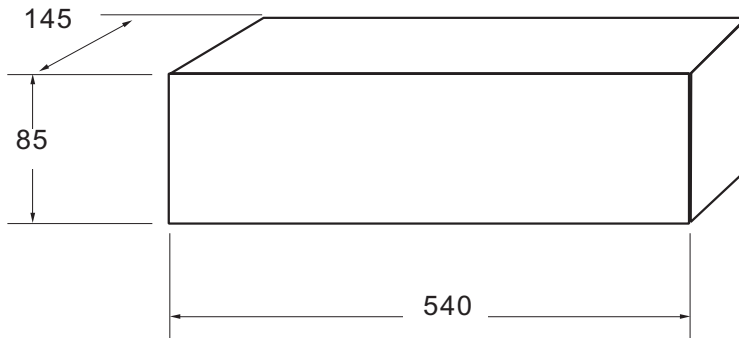
2. MARKING





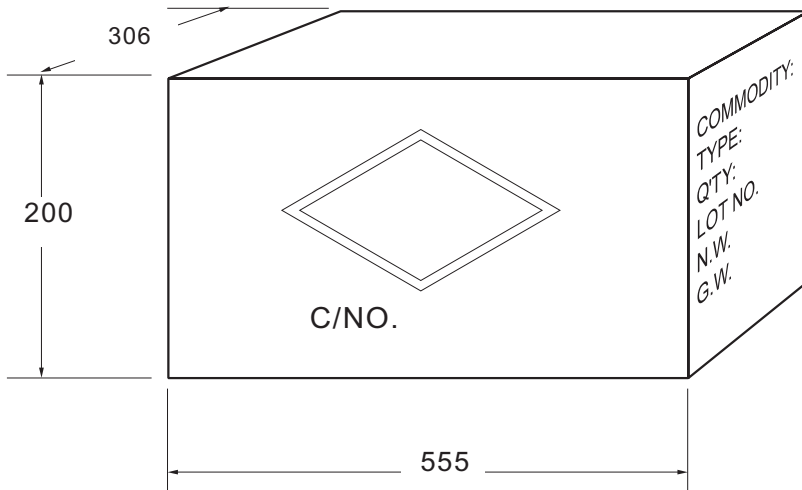
3. PACKING

INNER BOX



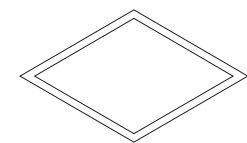
Box Dimensions : mm
Quantity per Carton : 2,000 pcs

CARTON



Box Dimensions : mm
Quantity per Box : 8,000 pcs

SHIPPING MARK



C/NO.
PRODUCT COUNTRY

SIDE MARK

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



Packing Specifications

| 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 | | | | | | | | |
| DFN 2L | 7 | 8,000 | 2 | 8 | 178 | 390 x 270 x 400 | 640,000 | 8.6 |
| DFN 3L | 7 | 8,000 | 2 | 8 | 178 | 390 x 270 x 400 | 640,000 | 8.6 |
| DFN 0603 | 7 | 10,000 | 2 | 8 | 178 | 390 x 270 x 400 | 800,000 | 9 |
| SOD-123 | 7 | 3,000 | 4 | 8 | 178 | 390 x 270 x 400 | 240,000 | 9.9 |
| | 13 | 10,000 | 4 | 8 | 330 | 375 x 360 x 213 | 120,000 | 6.5 |
| SOD-123FL | 7 | 3,000 | 4 | 8 | 178 | 390 x 270 x 400 | 240,000 | 10.6 |
| | 13 | 10,000 | 4 | 8 | 330 | 375 x 360 x 213 | 120,000 | 7.2 |
| SOD-123HE | 7 | 3,000 | 4 | 8 | 178 | 390 x 270 x 400 | 240,000 | 12.4 |
| | 13 | 10,000 | 4 | 8 | 330 | 375 x 360 x 213 | 120,000 | 8.1 |
| SOD-323 | 7 | 5,000 | 4 | 8 | 178 | 390 x 270 x 400 | 400,000 | 9.4 |
| | 13 | 12,000 | 4 | 8 | 330 | 375 x 360 x 213 | 144,000 | 5.9 |
| SOD-323HE | 7 | 5,000 | 4 | 8 | 178 | 390 x 270 x 400 | 400,000 | 11.9 |
| | 13 | 12,000 | 4 | 8 | 178 | 375 x 360 x 213 | 144,000 | 8.3 |
| SOD-523 | 7 | 5,000 | 4 | 8 | 178 | 390 x 270 x 400 | 400,000 | 9.1 |
| | 13 | 12,000 | 4 | 8 | 330 | 375 x 360 x 213 | 144,000 | 5.4 |
| SOD-723 | 7 | 8,000 | 2 | 8 | 178 | 390 x 270 x 400 | 640,000 | 8.5 |
| SOD-923 | 7 | 8,000 | 2 | 8 | 178 | 390 x 270 x 400 | 640,000 | 7.7 |
| SOT-23 | 7 | 3,000 | 4 | 8 | 178 | 390 x 270 x 400 | 240,000 | 9.8 |
| | 13 | 12,000 | 4 | 8 | 330 | 375 x 360 x 213 | 144,000 | 7 |
| SOT-23 (ESD) | 7 | 3,000 | 4 | 8 | 178 | 455 x 270 x 440 | 240,000 | 9.9 |
| SOT-23 5L | 7 | 3,000 | 4 | 8 | 178 | 390 x 270 x 400 | 240,000 | 14.5 |
| | 13 | 10,000 | 4 | 8 | 330 | 375 x 360 x 213 | 120,000 | 7.9 |
| SOT-23 6L | 7 | 3,000 | 4 | 8 | 178 | 390 x 270 x 400 | 240,000 | 14.5 |
| | 13 | 10,000 | 4 | 8 | 330 | 375 x 360 x 213 | 120,000 | 7.9 |
| SOT-323 | 7 | 3,000 | 4 | 8 | 178 | 390 x 270 x 400 | 240,000 | 7.9 |
| | 13 | 12,000 | 4 | 8 | 330 | 375 x 360 x 213 | 144,000 | 6.1 |
| SOT-323 (ESD) | 7 | 3,000 | 4 | 8 | 178 | 455 x 270 x 440 | 240,000 | 9.4 |
| SOT-353 | 7 | 3,000 | 4 | 8 | 178 | 390 x 270 x 400 | 240,000 | 10 |
| | 13 | 10,000 | 4 | 8 | 330 | 375 x 360 x 213 | 120,000 | 7.2 |
| SOT-363 | 7 | 3,000 | 4 | 8 | 178 | 390 x 270 x 400 | 240,000 | 10.2 |
| | 13 | 10,000 | 4 | 8 | 330 | 375 x 360 x 213 | 120,000 | 7.1 |
| SOT-363 (ESD) | 7 | 3,000 | 4 | 8 | 178 | 455 x 270 x 440 | 240,000 | 10 |
| SOT-523 | 7 | 4,000 | 4 | 8 | 178 | 390 x 270 x 400 | 320,000 | 10 |
| SOT-543 | 7 | 4,000 | 4 | 8 | 178 | 390 x 270 x 400 | 320,000 | 9.4 |
| | 13 | 10,000 | 4 | 8 | 330 | 375 x 360 x 213 | 120,000 | 5.2 |
| SOT-553 | 7 | 4,000 | 4 | 8 | 178 | 390 x 270 x 400 | 320,000 | 9.4 |
| | 13 | 10,000 | 4 | 8 | 330 | 375 x 360 x 213 | 120,000 | 5.2 |
| SOT-563 | 7 | 4,000 | 4 | 8 | 178 | 390 x 270 x 400 | 320,000 | 9.4 |
| | 13 | 10,000 | 4 | 8 | 330 | 375 x 360 x 213 | 120,000 | 5.2 |



Packing Specifications

| 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 | | | | | | | | |
| A-405 | 13 | 5,000 | 5 | 52 | 330 | 340 x 340 x 410 | 25,000 | 7.79 |
| DO-15 | 13 | 4,000 | 5 | 52 | 330 | 340 x 340 x 410 | 20,000 | 11.4 |
| DO-201AD | 13 | 1,250 | 10 | 52 | 330 | 340 x 340 x 410 | 6,250 | 9.2 |
| DO-201AE | 13 | 1,250 | 10 | 52 | 330 | 340 x 340 x 410 | 6,250 | 9.2 |
| DO-34 | 15 | 10,000 | 5 | 52 | 360 | 360 x 360 x 395 | 50,000 | 10.1 |
| DO-35 | 15 | 10,000 | 5 | 52 | 360 | 360 x 360 x 395 | 50,000 | 11.2 |
| DO-41 | 13 | 5,000 | 5 | 52 | 330 | 340 x 340 x 410 | 25,000 | 11.1 |
| DO-41G | 15 | 5,000 | 5 | 52 | 360 | 360 x 360 x 395 | 25,000 | 10.9 |
| MDI | 13 | 3,000 | 8 | 12 | 330 | 375 x 360 x 390 | 48,000 | 14.7 |
| MELF/DL-41 | 7 | 1,500 | 4 | - | 178 | 385 x 380 x 260 | 84,000 | 18.3 |
| | 13 | 5,000 | 4 | - | 330 | 360 x 360 x 395 | 100,000 | 23.5 |
| MICRO-MELF | 7 | 2,500 | 4 | - | 178 | 385 x 380 x 260 | 200,000 | 9.3 |
| | 13 | 10,000 | 4 | - | 330 | 360 x 360 x 395 | 200,000 | 11.5 |
| MINI-MELF/LL-34 | 7 | 2,500 | 4 | - | 178 | 385 x 380 x 260 | 200,000 | 12.7 |
| | 13 | 10,000 | 4 | - | 330 | 360 x 360 x 395 | 200,000 | 14.6 |
| MICRO DIP/TDI | 7 | 1,000 | 8 | 12 | 178 | 390 x 240 x 420 | 40,000 | 9.5 |
| | 13 | 4,000 | 8 | 12 | 330 | 375 x 360 x 390 | 64,000 | 17 |
| P-600 | 13 | 800 | 10 | 52 | 330 | 340 x 340 x 410 | 4,000 | 9.9 |
| QUADRO-MELF | 13 | 10,000 | 4 | - | 330 | 360 x 360 x 395 | 200,000 | 14.9 |
| | 7 | 2,500 | 4 | - | 178 | 385 x 380 x 260 | 200,000 | 13.3 |
| R-1 | 13 | 5,000 | 5 | 52 | 330 | 340 x 340 x 410 | 25,000 | 7.8 |
| SDIP | 13 | 1,500 | 12 | 16 | 330 | 375 x 360 x 390 | 21,000 | 14.3 |
| SMA(W) | 7 | 1,800 | 4 | 12 | 178 | 390 x 240 x 420 | 100,800 | 13 |
| | 13 | 7,500 | 4 | 12 | 330 | 355 x 355 x 400 | 150,000 | 20.4 |
| SMA/DO-214AC | 7 | 1,800 | 4 | 12 | 178 | 390 x 240 x 420 | 72,000 | 10 |
| | 13 | 7,500 | 4 | 12 | 330 | 375 x 360 x 390 | 120,000 | 17.4 |
| SMAF | 7 | 3,000 | 4 | 12 | 178 | 390 x 240 x 420 | 120,000 | 10.9 |
| | 13 | 10,000 | 4 | 12 | 330 | 375 x 360 x 390 | 160,000 | 17.1 |
| SMBF | 13 | 5,000 | 8 | 12 | 330 | 375 x 360 x 390 | 80,000 | 15.6 |
| SMB/DO-214AA | 7 | 500 | 8 | 12 | 178 | 390 x 240 x 420 | 20,000 | 6.5 |
| | 13 | 3,000 | 8 | 12 | 330 | 375 x 360 x 390 | 48,000 | 13.2 |
| SMC/DO-214AB | 7 | 500 | 8 | 16 | 178 | 390 x 240 x 420 | 15,000 | 8.4 |
| | 13 | 3,000 | 8 | 16 | 330 | 375 x 360 x 390 | 42,000 | 18 |
| TO-252/DPAK | 13 | 3,000 | 8 | 16 | 330 | 375 x 360 x 390 | 42,000 | 18.8 |
| TO-263/D ² PAK | 13 | 800 | 16 | 24 | 330 | 375 x 360 x 390 | 6,400 | 14.5 |
| TO-277 | 13 | 5,000 | 8 | 12 | 330 | 375 x 360 x 390 | 80,000 | 20.6 |



Packing Specifications

| Package | Inner Box 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 |
| 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 | 459 x 214 x 256 | 12,500 | 16 |
| DO-201AE | 200 x 85 x 40 | 500 | 495 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 256 | 50,000 | 19.3 |
| DO-41G | 240 x 100 x 90 | 1,000 | 406 x 335 x 257 | 60,000 | 18.5 |
| DIP | - | - | 459 x 214 x 256 | 12,000 | 6.5 |
| SDIP | - | - | 459 x 214 x 256 | 24,000 | 15.7 |
| R-1 | 198 x 84 x 20 | 1,000 | 459 x 214 x 256 | 50,000 | 12.7 |
| P-600 | 208 x 90 x 83 | 500 | 459 x 214 x 256 | 5,000 | 11.3 |
| ITO-220 | 540 x 145 x 85 | 2,000 | 555 x 306 x 200 | 8,000 | 20.5 |
| TO-220 | 540 x 145 x 85 | 2,000 | 555 x 306 x 200 | 8,000 | 22.9 |
| TO-251AB/DPAK | 555 x 145 x 95 | 8,400 | 572 x 306 x 218 | 33,600 | 22 |
| TO-3P/TO-247AD | - | - | 530 x 243 x 100 | 1,500 | 13.9 |
| TO-3PS/TO-247S | - | - | 511 x 243 x 107 | 1,500 | 12.2 |

| Package | Inner Box Size | Ammo | Component Space | Tape Space | Carton Size | Carton | Approx. Gross Weight |
|--------------------|----------------|-------|-----------------|------------|-----------------|---------|----------------------|
| | (m/m) | (pcs) | (m/m) | (m/m) | (m/m) | (EA) | (Kg) |
| Ammunition Packing | | | | | | | |
| A-405 | 255 x 47 x 150 | 5,000 | 5 | 26 | 339 x 276 x 330 | 60,000 | 12.4 |
| A-405 | 255 x 75 x 150 | 5,000 | 5 | 52 | 339 x 276 x 330 | 40,000 | 16 |
| DO-15 | 255 x 75 x 150 | 3,000 | 5 | 52 | 339 x 276 x 330 | 24,000 | 13.3 |
| DO-201AD | 255 x 47 x 122 | 1,250 | 10 | 52 | 339 x 276 x 330 | 10,000 | 13.4 |
| DO-201AE | 255 x 47 x 122 | 1,250 | 10 | 52 | 339 x 276 x 330 | 10,000 | 13.4 |
| DO-34 | 248 x 80 x 48 | 5,000 | 5 | 26 | 406 x 335 x 257 | 150,000 | 14.5 |
| DO-34 | 248 x 80 x 75 | 5,000 | 5 | 52 | 406 x 335 x 257 | 100,000 | 12.7 |
| DO-35 | 248 x 80 x 48 | 5,000 | 5 | 26 | 406 x 335 x 257 | 150,000 | 16.7 |
| DO-35 | 248 x 80 x 75 | 5,000 | 5 | 52 | 406 x 335 x 257 | 100,000 | 15.2 |
| DO-41 | 255 x 75 x 150 | 5,000 | 5 | 52 | 339 x 276 x 330 | 40,000 | 15.9 |
| DO-41G | 248 x 80 x 48 | 2,500 | 5 | 26 | 406 x 335 x 257 | 75,000 | 17.1 |
| DO-41G | 248 x 80 x 75 | 2,500 | 5 | 52 | 406 x 335 x 257 | 50,000 | 15.6 |
| P-600 | 255 x 47 x 122 | 400 | 10 | 52 | 339 x 276 x 330 | 3,200 | 8.1 |
| R-1 | 255 x 47 x 73 | 3,000 | 5 | 26 | 310 x 268 x 170 | 36,000 | 6.3 |
| R-1 | 255 x 73 x 73 | 3,000 | 5 | 52 | 310 x 268 x 170 | 24,000 | 6.3 |
| R-1 | 255 x 73 x 122 | 5,000 | 5 | 52 | 339 x 276 x 274 | 40,000 | 10.3 |

4.HIGH RELIABILITY TEST SPEC (Schottky & Switching & Rectifiers & Bridge)

Date : 2010.07.05 rev.01

| NO. | TEST ITEM | TEST CONDITION | REFERENCED DOCUMENT | LOT QUALITY LEVEL |
|-----|---|---|--|--|
| 1 | TEMPERATURE CYCLING (T.C.T) 溫度循環試驗 | Ta = -55+0°C / -10°C 10min(Min) Ta = +150+15°C / -0°C 10min(Min) FOR 20CYCLES | MIL-STD-750D METHOD-1051.5 Condition G | LTPD 10 S.S=22 ACCEPT FOR 0 FAILURE ONLY. |
| 2 | HIGH TEMPERATURE STORAGE LIFE (H.T.S.L) 高溫儲存壽命試驗 | Ta=Storage Temperature Range (device specified maximum temperature) | MIL-STD-750D METHOD-1032.2 | LTPD 10 S.S=22 ACCEPT FOR 0 FAILURE ONLY. |
| 3 | SOLDERABILITY TEST 錫錫性試驗 | Temperature of Solder TEMPERATURE OF SOLDER POT=245+/-5°C TIME FOR DIPPING IN SOLDER=5+/-0.5 SEC DIPPING DEPTH=0.05inch max from the body 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) 高溫逆向偏壓 | Tj ≤ Tj max VR=0.8VR(CUSTOMER SPEC.) DC supply | MIL-STD-750D METHOD-1038.3 | LTPD 10 S.S=22 ACCEPT FOR 0 FAILURE ONLY. |
| 5 | CONTINUE FORWARD OPERATING LIFE(C.F.O.L) 連續通電 | Ta=25°C I = I _o +/- 10% DC supply | MIL-STD-750D METHOD 1027.3 | LTPD 10 S.S=22 ACCEPT FOR 0 FAILURE ONLY. |
| 6 | THERMAL SHOCK (T.S.T) 冷熱衝擊試驗 | HOT TANK Ta=100+10/-2°C t= 5min COLD TANK Ta=0+2/-10°C t= 5min 15 CYCLES TIME BETWEEN TRANSFERRING DO NOT EXCEED 10 SEC | MIL-STD-750D METHOD 1056.7 | LTPD 10 S.S=22 ACCEPT FOR 0 FAILURE ONLY. |
| 7 | PRESSURE COOKER (P.C.T) 壓力鍋試驗 | Ta=121°C P=29.7psia / 205kPa or 2.088kg/cm ² Relative Humidity = 100% | JEDEC JESD22-A102-C | LTPD 10 S.S=22 ACCEPT FOR 0 FAILURE ONLY. |
| 8 | INTERMITTENT FORWARD OPERATING LIFE (I.F.O.L) 斷續通電 | I = I _o x 1.0 DC supply POWER ON: at least 30 SEC POWER OFF: 50 SEC TESTING CYCLE: 2000CYCLES | MIL-STD-750D METHOD 1036.3 | LTPD 10 S.S=22 ACCEPT FOR 0 FAILURE ONLY. |
| 9 | FORWARD SURGE CURRENT 順向突波電流測試 | SQ WAVE OR SINE WAVE IFSM=DATE SHEET SPEC. TIME=Single half sine wave T= 1 CYCLE | MIL-STD-750D METHOD 4066-3 | LTPD 10 S.S=22 ACCEPT FOR 0 FAILURE ONLY. |
| 10 | HUMIDITY 恆溫濕試驗 | Ta=85+/-2°C RH=85+/-5% | EIAJ ED-4701 METHOD 103 | LTPD 10 S.S=22 ACCEPT FOR 0 FAILURE ONLY. |
| 11 | SOLDER RESISTANCE 錫錫耐熱性試驗 | TEMPERATURE OF SOLDER POT=260+/-5°C TIME FOR DIPPING IN SOLDER=10+2/-0 SEC DIPPING DEPTH=1.57+/-0.79mm FROM THE BODY FOR ONE CYCLE | MIL-STD-750D METHOD 2031.2 | LTPD 10 S.S=22 ACCEPT FOR 0 FAILURE ONLY. |