

APPROVE SHEET

Customer : _____

Customer Part Number : GBU4AR~GBU4MR

PanJit Part Number : GBU4AR~GBU4MR

Issue Date : April 2,2014

Approver Signature :

APPROVED BY : Matt Yang _____

PREPARED BY : Ivy Deng _____



PANJIT INTERNATIONAL INC.

TEL : 886-7-6213121 FAX : 886-7-6213129

No.24, Gang Shan North Rd., Gang Shan Dist.,
Kaohsiung City 82063, Taiwan



TABLE OF CONTENTS

1.DATA SHEET

PAGE 1

2.MARKING

PAGE 5

3.PACKING

PAGE 6

4.HIGH RELIABILITY TESTING SPEC.

PAGE 10



1.DATA SHEET

GBU4AR~GBU4MR

GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

VOLTAGE 50 to 1000 Volt **CURRENT** 4 Ampere

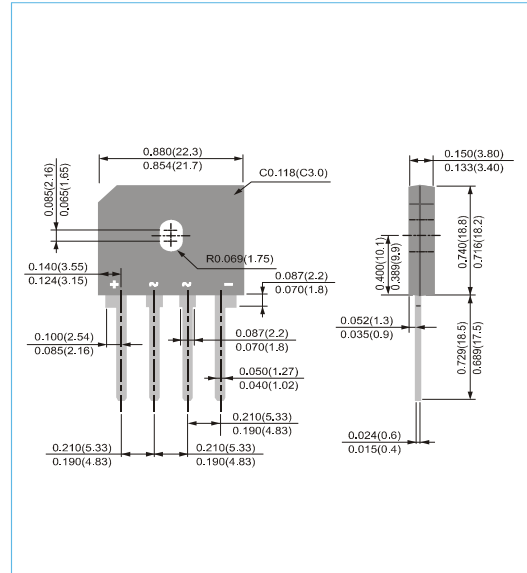
FEATURES

- Plastic material has Underwriters Laboratory Flammability Classification 94V-O
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Surge overload rating : 150 Amperes peak
- Lead free in compliance with EU RoHS 2011/65/EU directive

MECHANICAL DATA

Case: Reliable low cost construction utilizing molded plastic technique
 Terminals: Leads solderable per MIL-STD-750, Method 2026
 Mounting torque: 5 in. lb. Max.
 Weight: 0.15 ounce, 4 grams

GBU Unit : inch(mm)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

| PARAMETER | SYMBOL | GBU4AR | GBU4BR | GBU4DR | GBU4GR | GBU4JR | GBU4KR | GBU4MR | UNITS |
|-------------------------------------------------------------------------------|------------------------------------|--------|--------|--------|--------|--------------|--------|--------|--------------------|
| Maximum Recurrent Peak Reverse Voltage | V_{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS Bridge Input Voltage | V_{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC Blocking Voltage | V_{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum Average Forward TC=100°C Rectified Output Current at TA=40°C | I_{AV} | | | | | 4 | | | A |
| I^2t Rating for fusing (t<8.3ms) | I^2t | | | | | 93 | | | A ² sec |
| Peak Forward Surge Current single sine-wave superimposed on rated load | I_{FSM} | | | | | 150 | | | Apk |
| Maximum Instantaneous Forward Voltage Drop per element at 2A | V_F | | | | | 1 | | | Vpk |
| Maximum Reverse Leakage Current at Rated Dc Blocking Voltage TA=25°C TA=100°C | I_R | | | | | 5 | | | μA |
| Typical Thermal Resistance per leg (Note 2) (Note 3) | $R_{\theta JA}$ $R_{\theta JC}$ | | | | | 19 | | | °C/W |
| Operating Junction and Storage Temperature Range | T_J, T_{STG} | | | | | -55 to + 150 | | | °C |

NOTES:

1. Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with #6 s crew.
2. Units Mounted in free air, no heatsink, P.C.B at 0.375"(9.5mm) lead length with 0.5 x 0.5"(12 x 12mm)copper pads.
3. Units Mounted on a 2 x 1.6" x 0.3" thick (5 x 4 x 0.8cm) AL plate.



RATING AND CHARACTERISTIC CURVES

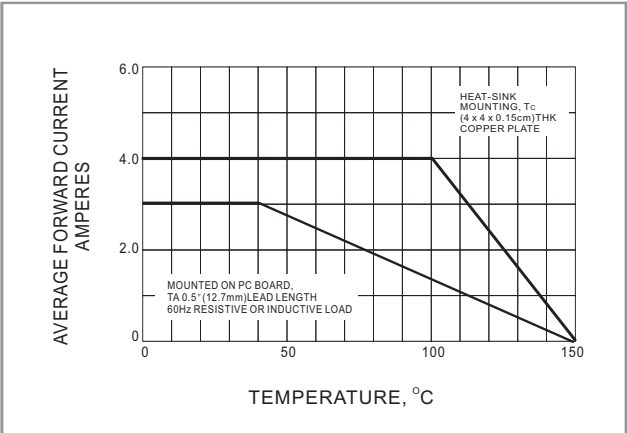


Fig.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

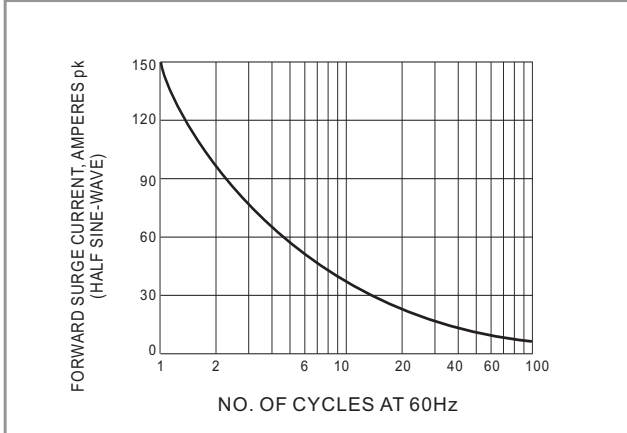


Fig.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

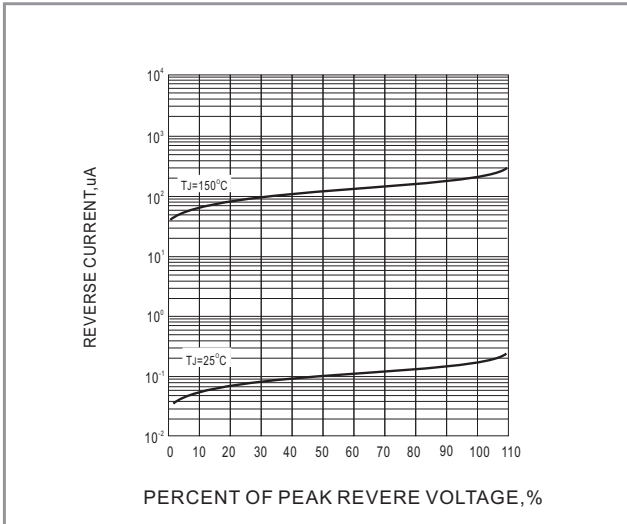


Fig.3 - TYPICAL REVERSE CHARACTERISTICS

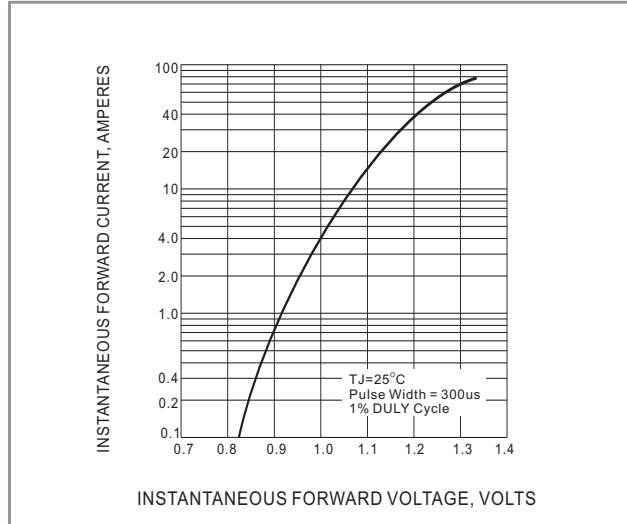


Fig.4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER ELEMENT



Part No_packing code_Version

GBU4AR_B0_00001
 GBU4AR_B0_10001
 GBU4AR_T0_00001
 GBU4AR_T0_10001

For example :

RB500V-40_R2_00001



| 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 |
| Tape and Ammunition Box (T/B) | A | N/A | 0 | HF | 0 | serial number |
| Tape and Reel (T/R) | R | 7" | 1 | RoHS | 1 | serial number |
| Bulk Packing (B/P) | B | 13" | 2 | | | |
| Tube Packing (T/P) | T | 26mm | X | | | |
| Tape and Reel (Right Oriented) (TRR) | S | 52mm | Y | | | |
| Tape and Reel (Left Oriented) (TRL) | L | PANASERT T/B CATHODE UP (PBCU) | U | | | |
| FORMING | F | PANASERT T/B CATHODE DOWN (PBCD) | D | | | |

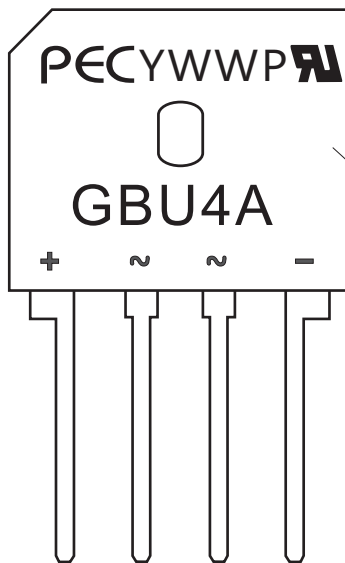


Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.



2. MARKING

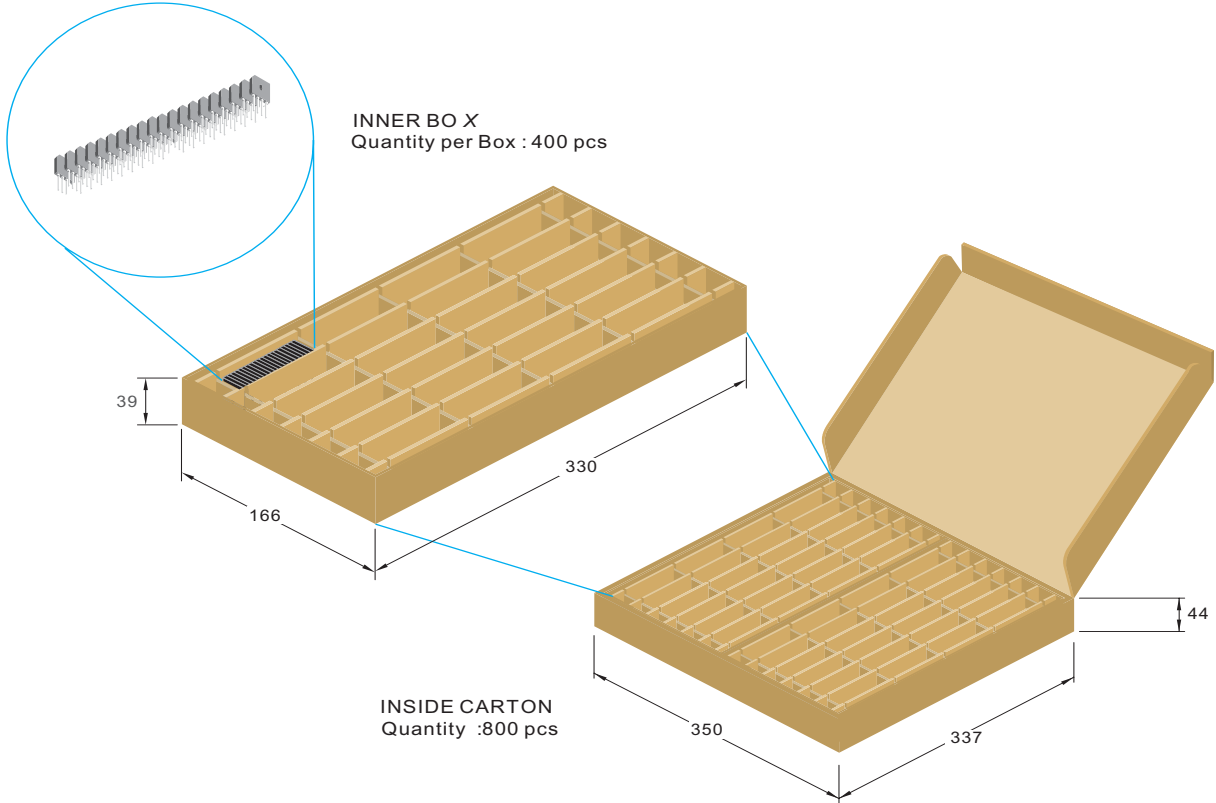


1st line: PEC- PanJit logo
Y- Last digit of calendar year
WW- Weekly
P- Production line

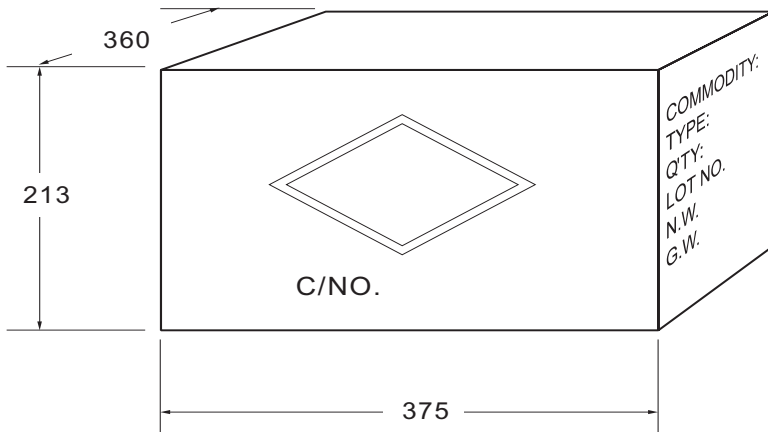
2nd line: Marking code



3. PACKING

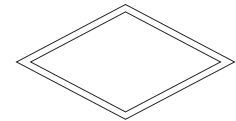


CARTON



Box Dimensions : mm
Quantity per Box: 3,200 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 0603 | 7 | 10,000 | 2 | 8 | 178 | 390 x 270 x 400 | 800,000 | 9 |
| 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 |
| DFN1616-8L | 7 | 5,000 | 4 | 8 | 178 | 390 x 270 x 400 | 400,000 | 10.4 |
| | 13 | 12,000 | 4 | 8 | 330 | 375 x 360 x 230 | 144,000 | 7.6 |
| SOD-923 | 7 | 8,000 | 2 | 8 | 178 | 390 x 270 x 400 | 640,000 | 7.7 |
| 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 230 | 144,000 | 5.4 |
| 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 230 | 144,000 | 8.3 |
| 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 230 | 144,000 | 5.9 |
| 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 230 | 120,000 | 8.1 |
| 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 230 | 120,000 | 7.2 |
| 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 230 | 120,000 | 6.5 |
| 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 230 | 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 230 | 120,000 | 5.2 |
| 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 230 | 120,000 | 5.2 |
| SOT-523 | 7 | 4,000 | 4 | 8 | 178 | 390 x 270 x 400 | 320,000 | 10 |
| 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 230 | 120,000 | 7.1 |
| SOT-363 (ESD) | 7 | 3,000 | 4 | 8 | 178 | 455 x 270 x 440 | 240,000 | 10 |
| 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 230 | 120,000 | 7.2 |
| 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 230 | 120,000 | 7.9 |
| SOT-23 6L-1 | 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 230 | 120,000 | 7.9 |
| 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 230 | 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 230 | 144,000 | 6.1 |
| SOT-323 (ESD) | 7 | 3,000 | 4 | 8 | 178 | 455 x 270 x 440 | 240,000 | 9.4 |
| SOT-23-1 | 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 230 | 144,000 | 7 |



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 | | | | | | | | |
| 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 230 | 144,000 | 7 |
| SOT-23 (ESD) | 7 | 3,000 | 4 | 8 | 178 | 455 x 270 x 440 | 240,000 | 9.9 |
| 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 422 | 160,000 | 17.1 |
| SMBF | 7 | 1,500 | 8 | 12 | 178 | 390 x 240 x 420 | 60,000 | 9.6 |
| | 13 | 5,000 | 8 | 12 | 330 | 375 x 360 x 422 | 80,000 | 15.6 |
| 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 |
| 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 |
| R-1 | 13 | 5,000 | 5 | 52 | 330 | 340 x 340 x 410 | 25,000 | 7.8 |
| A-405 | 13 | 5,000 | 5 | 52 | 330 | 340 x 340 x 410 | 25,000 | 7.79 |
| DO-41 | 13 | 5,000 | 5 | 52 | 330 | 340 x 340 x 410 | 25,000 | 11.1 |
| 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 |
| P-600 | 13 | 800 | 10 | 52 | 330 | 340 x 340 x 410 | 4,000 | 9.9 |
| 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-41G | 15 | 5,000 | 5 | 52 | 360 | 360 x 360 x 395 | 25,000 | 10.9 |
| 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 |
| 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 |
| 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 |
| 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 |
| MDI | 13 | 3,000 | 8 | 12 | 330 | 375 x 360 x 390 | 48,000 | 14.7 |
| 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 422 | 64,000 | 17 |
| SDIP | 13 | 1,500 | 12 | 16 | 330 | 375 x 360 x 390 | 21,000 | 14.3 |
| TO-277 | 13 | 5,000 | 8 | 12 | 330 | 375 x 360 x 422 | 80,000 | 20.6 |
| TO-277B | 13 | 5,000 | 8 | 12 | 330 | 375 x 360 x 390 | 80,000 | 21.8 |
| TO-252/DPAK | 13 | 3,000 | 8 | 16 | 330 | 375 x 360 x 422 | 42,000 | 18.8 |
| TO-263/D ² PAK | 13 | 800 | 16 | 24 | 330 | 375 x 360 x 422 | 6,400 | 14.5 |



Packing Specifications

| Package | Inner Box Size | Box | Carton Size | Carton | Approx. Gross Weight |
|---------------------|----------------|-------|-----------------|---------|----------------------|
| | (m/m) | (EA) | (m/m) | (EA) | (Kg) |
| Bulk Packing | | | | | |
| R-1 | 198 x 84 x 20 | 1,000 | 459 x 214 x 256 | 50,000 | 12.7 |
| A-405 | 198 x 84 x 20 | 1,000 | 459 x 214 x 256 | 50,000 | 12.7 |
| DO-41 | 198 x 84 x 20 | 1,000 | 459 x 214 x 256 | 50,000 | 19.3 |
| 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 |
| P-600 | 208 x 90 x 83 | 500 | 459 x 214 x 256 | 5,000 | 11.3 |
| 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-41G | 240 x 100 x 90 | 1,000 | 406 x 335 x 257 | 60,000 | 18.5 |
| TO-220 | 540 x 145 x 85 | 2,000 | 555 x 306 x 200 | 8,000 | 22.9 |
| ITO-220 | 540 x 145 x 85 | 2,000 | 555 x 306 x 200 | 8,000 | 20.5 |
| TO-251AB/DPAK | 555 x 145 x 95 | 8,400 | 572 x 306 x 218 | 33,600 | 22 |
| TO-3PN | - | - | 600x185x230 | 1,800 | 16.4 |
| TO-247AD/TO-3P | - | - | 530 x 243 x 100 | 1,500 | 13.9 |
| TO-247S/TO-3PS | - | - | 511 x 243 x 107 | 1,500 | 12.2 |
| DIP | - | - | 459 x 214 x 256 | 12,000 | 6.5 |
| SDIP | - | - | 459 x 214 x 256 | 24,000 | 15.7 |

| 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 | | | | | | | |
| R-1 | 255 x 47 x 73 | 3,000 | 5 | 26 | 310 x 268 x 170 | 36,000 | 6.3 |
| | 255 x 73 x 73 | 3,000 | 5 | 52 | 310 x 268 x 170 | 24,000 | 6.3 |
| | 255 x 73 x 122 | 5,000 | 5 | 52 | 339 x 276 x 274 | 40,000 | 10.3 |
| A-405 | 255 x 47 x 150 | 5,000 | 5 | 26 | 339 x 276 x 330 | 60,000 | 12.4 |
| | 255 x 75 x 150 | 5,000 | 5 | 52 | 339 x 276 x 330 | 40,000 | 16 |
| DO-41 | 255 x 75 x 150 | 5,000 | 5 | 52 | 339 x 276 x 330 | 40,000 | 15.9 |
| 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 |
| P-600 | 255 x 47 x 122 | 400 | 10 | 52 | 339 x 276 x 330 | 3,200 | 8.1 |
| DO-34 | 248 x 80 x 48 | 5,000 | 5 | 26 | 406 x 335 x 257 | 150,000 | 14.5 |
| | 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 |
| | 248 x 80 x 75 | 5,000 | 5 | 52 | 406 x 335 x 257 | 100,000 | 15.2 |
| DO-41G | 248 x 80 x 48 | 2,500 | 5 | 26 | 406 x 335 x 257 | 75,000 | 17.1 |
| | 248 x 80 x 75 | 2,500 | 5 | 52 | 406 x 335 x 257 | 50,000 | 15.6 |

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

Date : 2013.02.22 rev.02

| 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 = Io + / - 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 = Io × 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 = DATE SHEET SPEC. 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. |