



GLASS PASSIVATED SUPERFAST RECOVERY RECTIFIERS

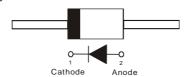
VOLTAGE 50 to 600 Volt CURRENT 2 Ampere

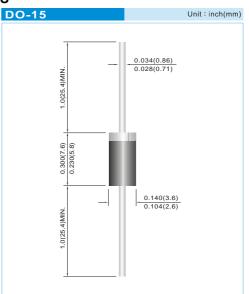
FEATURES

- Superfast recovery times-epitaxial construction.
- Low forward voltage, high current capability.
- 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 compliance with EU RoHS 2011/65/EU directive

MECHANICAL DATA

- Case: Molded plastic, DO-15
- Terminals: Axial leads, solderable to MIL-STD-750, Method 2026
- · Polarity: Color Band denotes cathode end
- Weight: 0.014 ounces, 0.397 grams





MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

| PARAMETER | SYMBOL | ER200 | ER201 | ER201A | ER202 | ER203 | ER204 | ER206 | 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 | I _{F(AV)} | 2 | | | | | | А | |
| Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load | I _{FSM} | 50 | | | | | | А | |
| Maximum Forward Voltage at 2A | | 0.95 1.25 1.7 | | | 1.7 | V | | | |
| Maximum DC Reverse Current at Rated DC $T_J=25^{\circ}C$ Blocking Voltage $T_J=125^{\circ}C$ | I _R | 1 200 | | | | | | μΑ | |
| Maximum Reverse Recovery Time (Note 1) | t _{rr} | 35 | | | | ns | | | |
| Typical Junction Capacitance (Note 2) | C¹ | 22 | | | | pF | | | |
| Typical Junction Resistance (Note 3) | R _{eJA} | 40 | | | | °C / W | | | |
| Operating and Storage Temperature Range | T _J ,T _{STG} | -55 to +150 | | | | °C | | | |

NOTES:1. Reverse Recovery Test Conditions : I_F=0.5A, I_R=-1A, I_{rr}=-0.25A

- 2. Measured at 1 MHz and applied reverse voltage of 4 VDC
- $3. \ Thermal\ resistance\ from\ junction\ to\ lead\ length\ 0.375" (9.5mm)\ P.C.B.\ mounted$





RATING AND CHARACTERISTIC CURVES

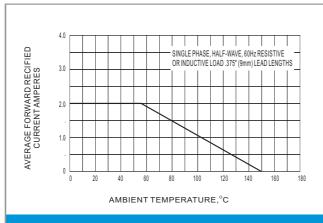


FIG.1 MAXIMUM AVERAGE FORWARD CURRENT RATING

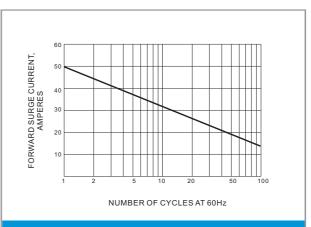


FIG.2 MAXIMUM NON-REPEITIVE SURGE CURRENT

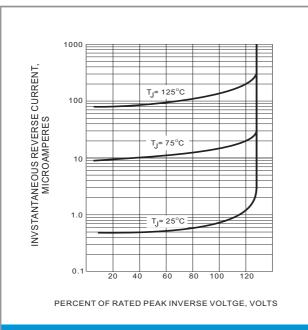


FIG.3 TYPICAL REVERSE CHARACTERISTICS

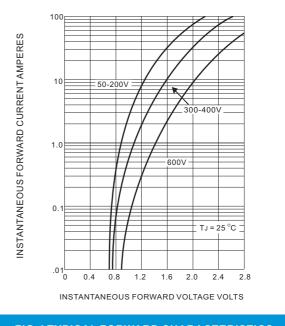
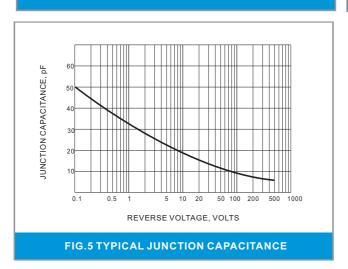


FIG.4 TYPICAL FORWARD CHARACTERISTICS







Part No_packing code_Version

ER200_AY_00001

ER200_AY_10001

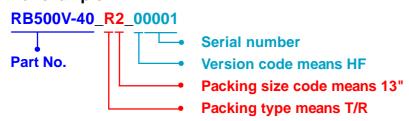
ER200_B0_00001

ER200_B0_10001

ER200_R2_00001

ER200_R2_10001

For example:



| Packing Code XX | | | | Version Code XXXXX | | | | |
|--------------------------------------|----------------------|-----------------------------------|----------------------|--------------------|----------|---------------------------------------|--|--|
| Packing type | 1 st Code | Packing size code | 2 nd Code | HF or RoHS | 1st Code | 2 nd ~5 th Code | | |
| Tape and Ammunition Box (T/B) | Α | N/A | 0 | HF | 0 | serial number | | |
| Tape and Reel (T/R) | R | 7" | 1 | RoHS | 1 | serial number | | |
| Bulk Packing (B/P) | В | 13" | 2 | | | | | |
| Tube Packing (T/P) | Т | 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 | | | | | |





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