JIEJIE MICROELECTRONICS CO., LTD.

JEER1006CCT EPI SUPERFAST SOFT RECOVERY RECTIFIER

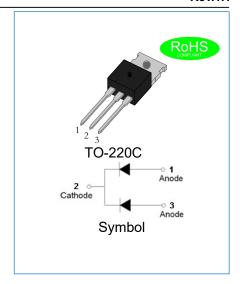
Rev.1.1

DESCRIPTION

- Plastic package has underwriters laboratory flammability classification 94V-0
- ♦ Lead free in comply with EU RoHS 2011/65/EU directives
- ♦ Low reverse leakage current
- ♦ Superfast recovery time and soft recovery characteristics
- ♦ Low recovery loss

MECHANICAL DATA

- ♦ Case: TO-220C molded plastic over passivated junction
- ♦ Terminals: Solder plated, solderable per J-STD-002
- ♦ Weight:2.08gram



ABSOLUTE MAXIMUM RATING (Rating at 25℃ case temperature unless otherwise specified.)

| Parameter | Symbol | JEER1006CCT | Unit |
|---|--------------------|-------------|------------|
| Maximum repetitive peak reverse voltage | V_{RRM} | 600 | V |
| Maximum RMS voltage | V _{RMS} | 420 | V |
| Maximum DC blocking voltage | V_{DC} | 600 | V |
| Maximum average forward current at T _C =100℃ | I _{F(AV)} | 10 | Α |
| Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load(per diode) | I _{FSM} | 75 | А |
| Junction temperature and storage temperature range | T_j, T_{stg} | -55 to +150 | $^{\circ}$ |

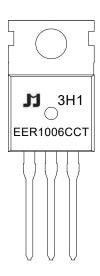
ELECTRICAL CHARACTERISTICS(Rating at 25°C case temperature unless otherwise specified.)

| Parameter | | | Min. | Тур. | Max. | Unit |
|---|--|-----------------|------|------|------|------|
| Maximum forward voltage | I _F =5A | V _F | - | - | 1.7 | ٧ |
| Maximum DC reverse current at rated DC blocking voltage | T _j =25℃ | | - | - | 5 | μΑ |
| | Tj=150°C | I _R | - | - | 200 | |
| Reverse recovery time | I _F =0.5A,I _R =1A,I _{rr} =0.25A | t _{rr} | - | - | 35 | ns |

THERMAL RESISTANCES

| Symbol | Parameter | Min. | Тур. | Max. | Unit |
|----------------------|--|------|------|------|------|
| R _{th(j-c)} | Thermal resistance from junction to case | - | 2.0 | - | °C/W |

MARKING



| EER | EPI Super Fast Recovery Rectifier | | | |
|-----|-----------------------------------|--|--|--|
| 10 | I _{F(AV)} =10A | | | |
| 06 | V _{RRM} : 600V | | | |
| С | Package: TO-220C | | | |
| СТ | Common cathode | | | |

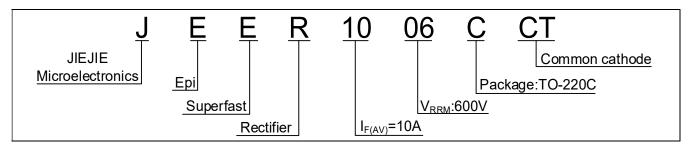
 $\underline{\mathbf{x}}$ H1: Month, 1、2、3 \sim 9、A、B、C

3<u>x</u>1:

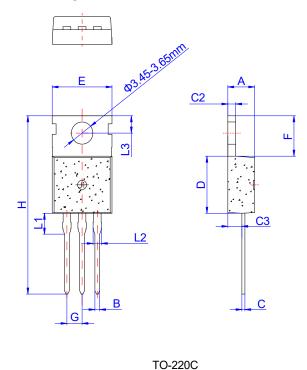
| 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 |
|------|------|------|------|------|------|------|
| Н | ı | J | K | L | М | N |
| 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | |
| 0 | Р | Q | R | S | Т | |

3Hx: Batch number

ORDERING INFORMATION



PACKAGE MECHANICAL DATA

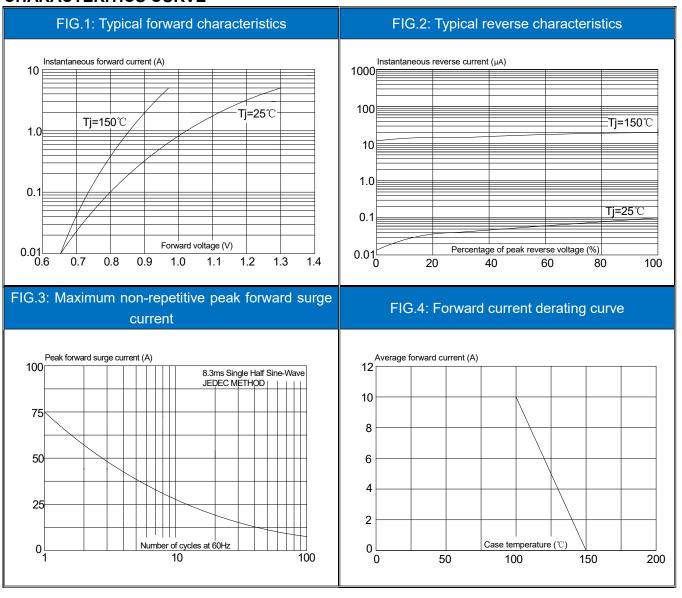


| | Dimensions | | | | | |
|------|-------------|------|------|--------|-------|-------|
| Ref. | Millimeters | | | Inches | | |
| | Min. | Тур. | Max. | Min. | Тур. | Max. |
| Α | 4.40 | | 4.60 | 0.173 | | 0.181 |
| В | 0.70 | | 0.90 | 0.028 | | 0.035 |
| С | 0.45 | | 0.60 | 0.018 | | 0.024 |
| C2 | 1.23 | | 1.32 | 0.048 | | 0.052 |
| C3 | 2.20 | | 2.60 | 0.087 | | 0.102 |
| D | 8.90 | | 9.90 | 0.350 | | 0.390 |
| Ε | 9.90 | | 10.3 | 0.390 | | 0.406 |
| F | 6.30 | | 6.90 | 0.248 | | 0.272 |
| G | | 2.54 | | | 0.1 | |
| Н | 28.0 | | 29.8 | 1.102 | | 1.173 |
| L1 | | 3.39 | | | 0.133 | |
| L2 | 1.14 | | 1.70 | 0.045 | | 0.067 |
| L3 | 2.65 | | 2.95 | 0.104 | | 0.116 |
| Ф | | 3.6 | | | 0.142 | |

PACKAGE INFORMATION-TO-220C

| OUTLINE | UNIT WEIGHT | TUBE | PER CARTON |
|---------|--------------|-------|------------|
| | (g/PCS) typ. | (PCS) | (PCS) |
| TUBE | 2.08 | 50 | 5,000 |

CHARACTERITICS CURVE





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