



## JEER0806CL EPI SUPERFAST SOFT RECOVERY RECTIFIER

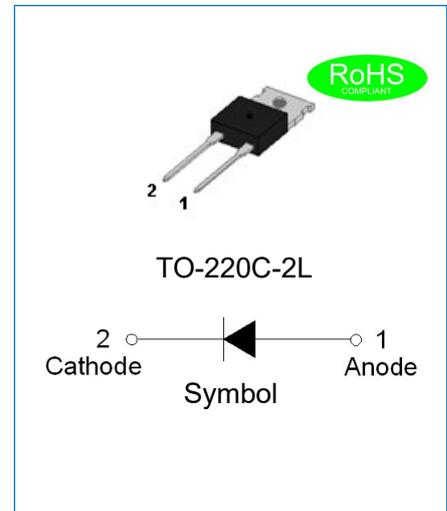
Rev.1.5

### 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-2L molded plastic over passivated junction
- ✧ Terminals: Solder plated, solderable per J-STD-002
- ✧ Weight:2 gram



### ABSOLUTE MAXIMUM RATING (Rating at 25°C ambient temperature unless otherwise specified.)

| Parameter  | Symbol         | JEER0806CL  | 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    |
| Average forward current at $T_C=100^\circ\text{C}$                                 | $I_{F(AV)}$    | 8           | A    |
| Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load | $I_{FSM}$      | 125         | A    |
| Junction temperature and storage temperature range                                 | $T_j, T_{stg}$ | -55 to +150 | °C   |

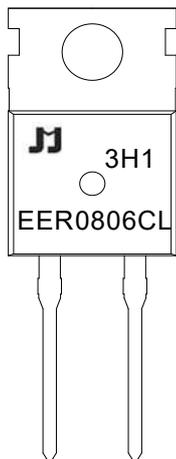
### ELECTRICAL CHARACTERISTICS (Rating at 25°C ambient temperature unless otherwise specified.)

| Parameter                                       | Symbol   | Min. | Typ. | Max. | Unit          |
|---|----------|------|------|------|---------------|
| Forward voltage @ $I_F=8\text{A}$               | $V_F$    | -    | -    | 1.7  | V             |
| DC reverse current at rated DC blocking voltage | $I_R$    | -    | -    | 5    | $\mu\text{A}$ |
|   |          |      |      | 200  |               |
| Reverse recovery time                           | $t_{rr}$ | -    | -    | 35   | ns            |

### THERMAL RESISTANCES

| Symbol        | Parameter                                | Min. | Typ. | Max. | Unit |
|---------------|--|------|------|------|------|
| $R_{th(j-c)}$ | Thermal resistance from junction to case | -    | 2    | -    | °C/W |

MARKING



|     |                                  |
|-----|----------------------------------|
| EER | EPI Superfast Recovery Rectifier |
| 08  | $I_{F(AV)}=8A$                   |
| 06  | $V_{RRM}:600V$                   |
| CL  | Package: TO-220C-2L              |

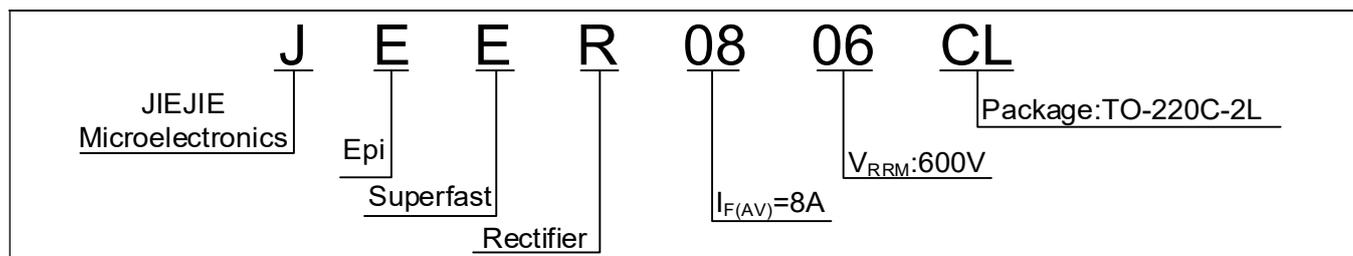
xH1: Month, 1/2/3~9/A/B/C

3x1:

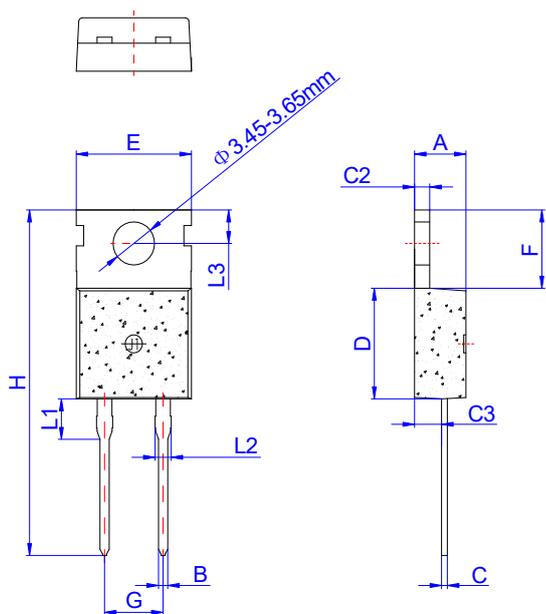
|      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|
| 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 |
| H    | I    | J    | K    | L    | M    | N    |
| 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | ...  |
| O    | P    | Q    | R    | S    | T    | ...  |

3Hx: Batch number

ORDERING INFORMATION



PACKAGE MECHANICAL DATA

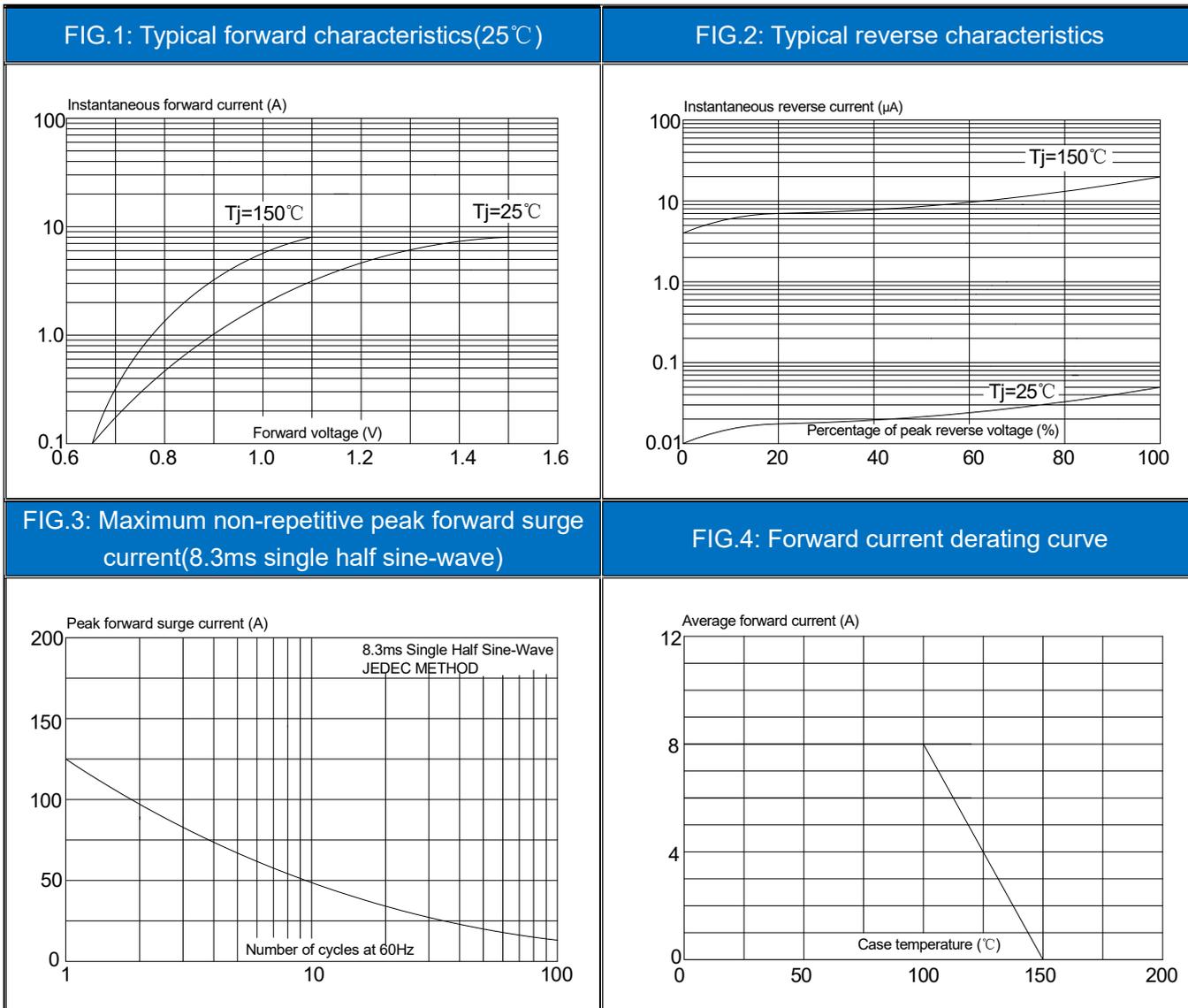


| Ref. | Dimensions  |      |      |        |       |       |
|------|-------------|------|------|--------|-------|-------|
|      | Millimeters |      |      | Inches |       |       |
|      | Min.        | Typ. | Max. | Min.   | Typ.  | Max.  |
| A    | 4.40        |      | 4.60 | 0.173  |       | 0.181 |
| B    | 0.70        |      | 0.90 | 0.028  |       | 0.035 |
| C    | 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 |
| E    | 9.90        |      | 10.3 | 0.390  |       | 0.406 |
| F    | 6.30        |      | 6.90 | 0.248  |       | 0.272 |
| G    |             | 5.08 |      |        | 0.200 |       |
| H    | 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 |
| Φ    |             | 3.6  |      |        | 0.142 |       |

PACKAGE INFORMATION- TO220C-2L

| OUTLINE | UNIT WEIGHT (g/PCS) TYP | TUBE (PCS) | PER CARTON (PCS) |
|---------|-------------------------|------------|------------------|
| TUBE    | 2                       | 50         | 5,000            |

CHARACTERISTICS CURVE



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