

ED1002CT~ED1006CT

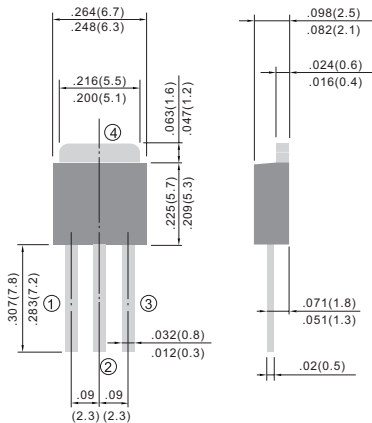
SUPERFAST RECOVERY RECTIFIERS

VOLTAGE 200 to 600 Volt CURRENT 10 Ampere



TO-251AB

Unit : inch(mm)



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 accordance with EU Directive 2002/95/EC

MECHANICAL DATA

- Case: Molded plastic, TO-251
- Terminals: Axial leads, solderable to MIL-STD-750, Method 2026
- Polarity: As marking

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Resistive or inductive load, 60Hz.

| PARAMETER | SYMBOL | ED1002CT | ED1003CT | ED1004CT | ED1006CT | UNITS |
|--|-----------------|-------------|----------|----------|----------|----------------|
| Maximum Recurrent Peak Reverse Voltage | V_{RRM} | 200 | 300 | 400 | 600 | V |
| Maximum RMS Voltage | V_{RMS} | 140 | 210 | 280 | 420 | V |
| Maximum DC Blocking Voltage | V_{DC} | 200 | 300 | 400 | 600 | V |
| Maximum Average Forward Current at $T_A = 75^\circ C$ | $I_{F(AV)}$ | 10 | | | | A |
| Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load | I_{FSM} | 100 | | | | A |
| Maximum Forward Voltage at 5A DC | V_F | 0.95 | 1.25 | 1.7 | | V |
| Maximum DC Reverse Current at Rated DC Blocking Voltage $T_J = 25^\circ C$ $T_J = 125^\circ C$ | I_R | 5 300 | | | | μA |
| Maximum Reverse Recovery Time | t_{rr} | 35 | | | | nS |
| Typical Junction Capacitance | C_J | 45 | | | | pF |
| Typical Thermal Resistance | $R_{\theta JA}$ | 9 | | | | $^\circ C / W$ |
| Operating Junction and Storage Temperature Range | T_J, T_{STG} | -55 to +150 | | | | $^\circ C$ |

NOTES:

1. Thermal Resistance Junction to Ambient .

ED1002CT~ED1006CT

RATING AND CHARACTERISTIC CURVES

