LITEON LITE-ON SEMICONDUCTOR

SURFACE MOUNT SUPER FAST RECTIFIER

FEATURES

- Glass passivated chip
- Super fast switching for high efficiency
- For surface mounted applications
- · Low forward voltage drop and high current capability
- Low reverse leakage current

MECHANICAL DATA

- Case: JEDEC DO-221AC
- Case Material: "Green" Molding compound, UL flammability classification 94V-0, (No Br. Sb. Cl.) "Halogen-free".
- Moisture Sensitivity: Level 1 per J-STD-020C
- Lead Free Finish, RoHS compliant
- Marking : FES2JD
- Weight: 0.035 grams (Approximate)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwis e specified.

| ABSOLUTE F | RATINGS |
|------------|---------|
|------------|---------|

| PAR | AMETER | | SYMBOL | VA | UNIT | | |
|---|--|------------------------------|-------------------|------------|----------------|-------------------------|--|
| Maximum repetitive peak reverse voltage | | | V _{RRM} | 600 | | V | |
| Maximum DC blocking voltage | | | V _{DC} | 600 | | V | |
| Maximum Average rectified forward current @Tc = 110°C | | | I _(AV) | 2 | | A | |
| Peak forward surge 8.3ms single half sine-wave superimposed on rated load | | | I _{FSM} | 50 | | А | |
| Operating and Storage temperature range | | | $T_{J,}T_{STG}$ | -55 ~ +150 | | °C | |
| STATIC ELECTRICAL C | HARACTER | RISTICS | | | | | |
| PARAMETER | TEST CONDITION | | SYMBOL | ТҮР | MAX | UNIT | |
| Forward voltage (Note 1) | $I_F = 2A$ | T _J = 25℃ | V _F | | 1.30 | V | |
| Reverse leakage current | V _R = 600V | T」= 25℃ T」=125℃ | I _R | | 5 350 | uA | |
| Typical junction capacitance (Note 2) | | | CJ | 20 | | pF | |
| THERMAL CHARACTE | RISTICS | | | | | | |
| PARAMETER | | | SYMBOL | ТҮР | | UNIT | |
| Typical thermal resistance (Note 3,4) | | | RthJ _c | 16 | | °C/W | |
| DYNAMIC ELECTRICA | L CHARACT | ERISTICS | | | | 4 | |
| PARAMETER | TEST | CONDITION | SYMBOL | МАХ | | UNIT | |
| Reverse Recovery Time | I _F =0.5A , I _R =1 | .0A , I _{rr} =0.25A | Trr | 35 | | nS | |
| Note : | | | | | REV. 0, Jul201 | REV. 0, Jul2015, KSGP08 | |

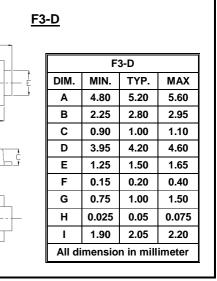
(1) 300us pulse width, 2% duty cycle

(2) Measured at 1.0MHz and applied reverse voltage of $4.0V_{DC}$.

(3) Thermal Resistance Junction to Case and Ambient

(4) Device mounted on 14.9mm x 12.08 mm x 1.49 mm Aluminum Heatsink



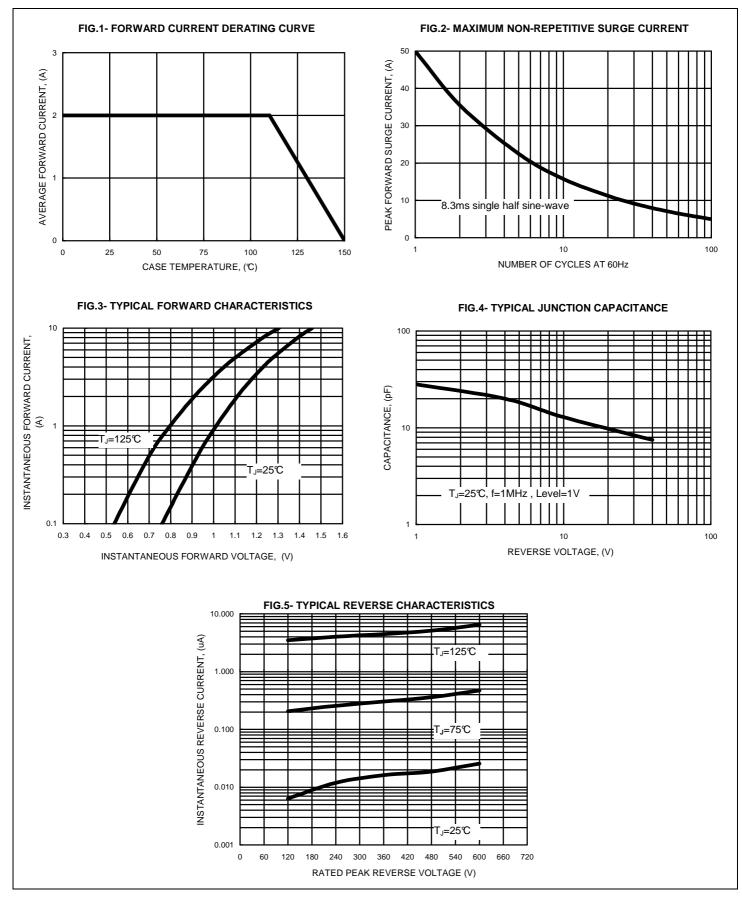


FES2JD



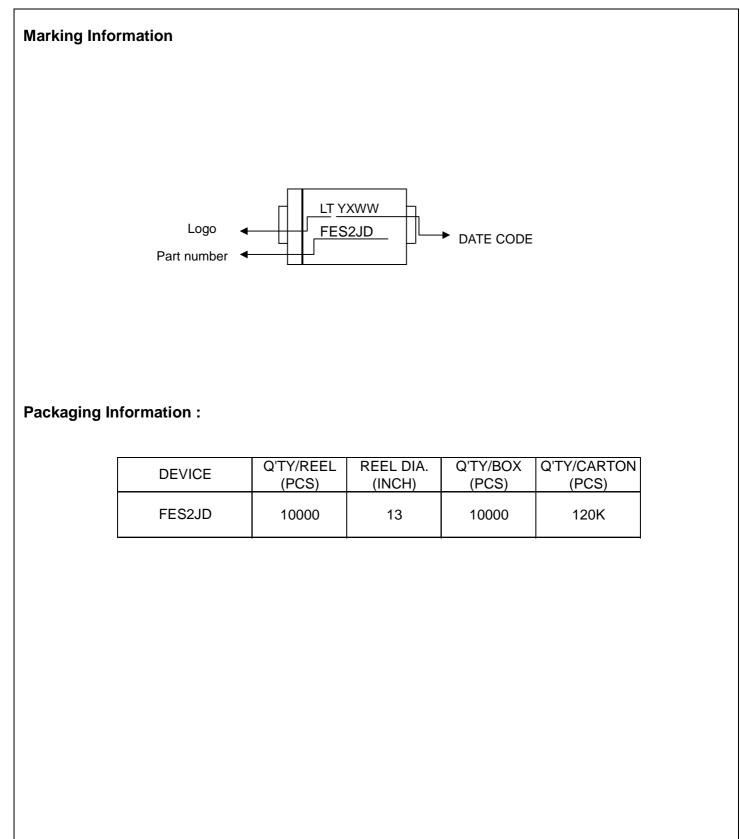
RATING AND CHARACTERISTIC CURVES FES2JD

LITEON



MARKING AND PACKAGING INFORMATION FES2JD





LEGAL DISCLAIMER NOTICE



Important Notice and Disclaimer

LSC reserves the right to make changes to this document and its products and specifications at any time without notice. Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.

LSC makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does LSC assume any liability for application assistance or customer product design. LSC does not warrant or accept any liability with products which are purchased or used for any unintended or unauthorized application.

No license is granted by implication or otherwise under any intellectual property rights of LSC.

LSC products are not authorized for use as critical components in life support devices or systems without express written approval of LSC.