



FES2A FES2J

2 Amp. Surface Mounted Glass Passivated Ultrafast Recovery Rectifier

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| <p>Dimensions in mm.</p> <p>CASE: SMB/DO-214AA</p> <p>Week code F4 I2 C Year code Type No. Closs</p> <p>Standard soldering pad</p> | <p>Voltage 50 to 600 V</p> <p>Current 2.0 A</p> <p>HYPERRECTIFIER®</p> <ul style="list-style-type: none"> • Glass passivated junction • High current capability • The plastic material carries U/L 94 V-0 • Low profile package • Easy pick and place • High temperature soldering 260 °C 10 sec <p>MECHANICAL DATA Terminals: Solder plated, solderable per IEC 68-2-20. Standard Packaging: 8 mm. tape (EIA-RS-481). Weight: 0.093 g.</p> |
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Maximum Ratings and Electrical Characteristics at 25 °C

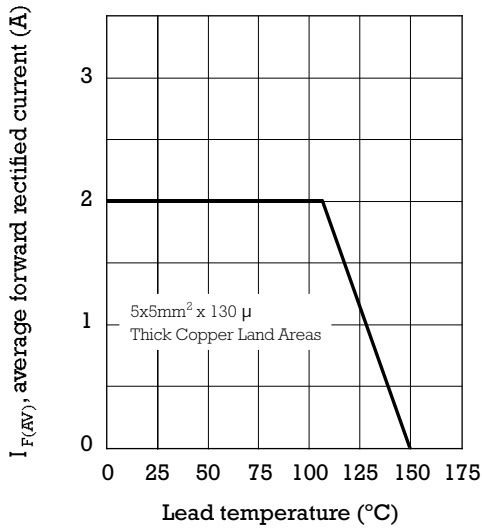
| | | FES2A | FES2B | FES2D | FES2F | FES2G | FES2J |
|--|---|--------------------|-------|-------|--------|-----------------|-------|
| Marking Code | | V1 | V2 | V3 | V4 | V5 | V6 |
| V _{RRM} | Maximum Recurrent Peak Reverse Voltage | 50 | 100 | 200 | 300 | 400 | 600 |
| V _{RMS} | Maximum RMS Voltage | 35 | 70 | 140 | 210 | 280 | 420 |
| V _{DC} | Maximum DC Blocking Voltage | 50 | 100 | 200 | 300 | 400 | 600 |
| I _{F(AV)} | Forward current at T _L = 110 °C | 2.0 A | | | | | |
| I _{FSM} | 8.3 ms. peak forward surge current (Jedec Method) | 50 A | | | | | |
| V _F | Maximum Instantaneous Forward Voltage at 2.0A | 0.95 V | | | 1.25 V | | |
| I _R | Maximum DC Reverse Current at Rated DC Blocking Voltage Ta = 25 °C Ta = 100 °C | | | | | 10 μA 350 μA | |
| T _{rr} | Maximum Reverse Recovery Time (0.5/1/0.25A) | 50 ns | | | | | |
| C _j | Typical Junction Capacitance (1MHz; -4V) | 35 pF | | | | | |
| R _{th(j-l)} R _{th(j-a)} | Typical Thermal Resistance (5x5 mm ² x 130 μ Copper Area) | 20 °C/W 60 °C/W | | | | | |
| T _j - T _{stg} | Operating Junction and Storage Temperature Range | -55 to + 150 °C | | | | | |



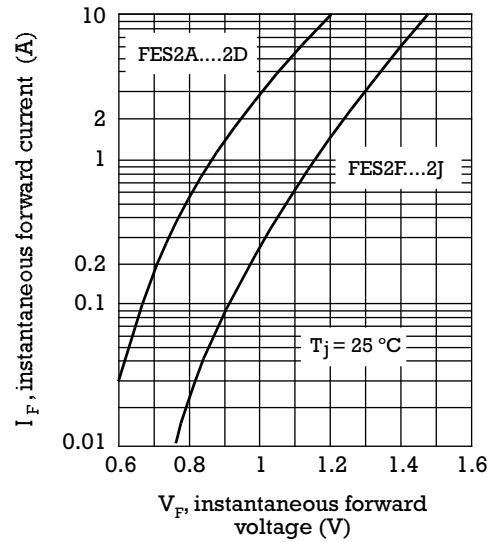


Rating And Characteristic Curves

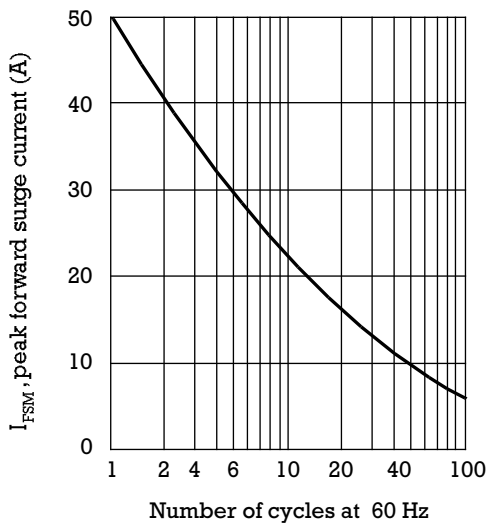
FORWARD CURRENT DERATING CURVE



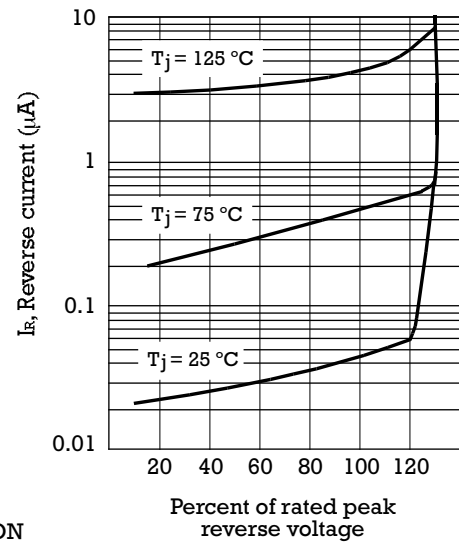
TYPICAL FORWARD CHARACTERISTIC



MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT



TYPICAL REVERSE CHARACTERISTIC



TYPICAL JUNCTION CAPACITANCE

