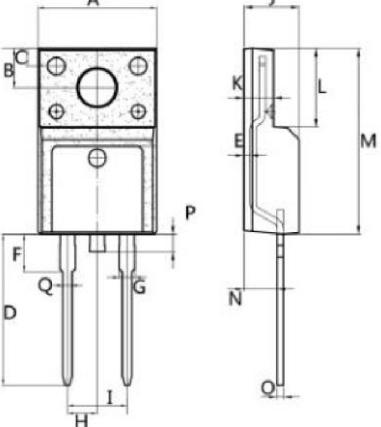
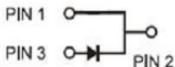
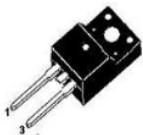


Ultrafast Recovery Rectifiers

| Primary characteristics | | |
|---|-------|------|
| Parameter | Value | Unit |
| Peak repetitive reverse voltage | 600 | V |
| Maximum Average Forward Rectified Current | 10 | A |

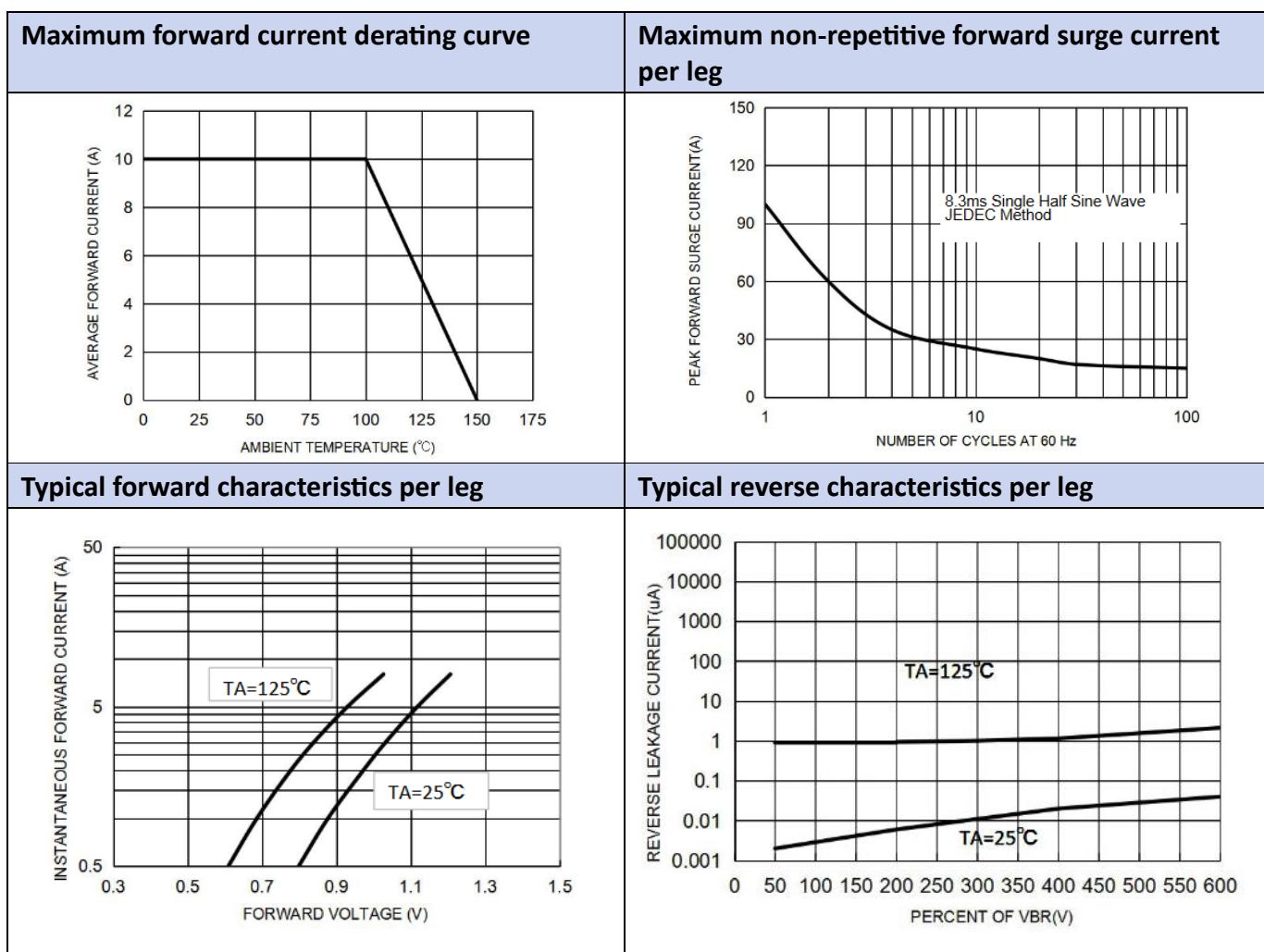
Features

- TO-220FAC case for easy automatic insertion.
- Pb-free and RoHS compliant
- High current capability
- High forward surge capability
- Low power losses, high efficiency
- Solder bath temperature: 275°C max., 10s per JESD22-106
- Approximate weight: 0.06oz/1.74g

| Case dimensions | | | | | | | | | | | | |
|---|-------|------|------|-------|------|------|--|------|------|------|------|--|
|  | | | | | | | | | | | | |
|  | | | | | | |  | | | | | |
| TO-220FAC | | | | | | | | | | | | |
| | A | B | C | D | E | F | G | H | I | J | K | |
| TYP | 10.10 | 3.10 | 1.35 | 13.10 | 0.58 | 3.2 | 1.38 | 2.54 | 5.08 | 4.68 | 2.58 | |
| MIN | 9.95 | 2.95 | 1.25 | 12.95 | 0.50 | 3.1 | 1.30 | - | - | 4.60 | 2.50 | |
| MAX | 10.25 | 3.25 | 1.45 | 13.25 | 0.65 | 3.3 | 1.45 | - | - | 4.75 | 2.65 | |
| | L | M | N | O | P | Q | All measurements in mm | | | | | |
| TYP | 6.45 | 15.7 | 2.90 | 0.50 | 1.5 | 0.80 | | | | | | |
| MIN | 6.35 | 15.4 | 2.75 | 0.48 | 1.4 | 0.76 | | | | | | |
| MAX | 6.55 | 16.0 | 3.05 | 0.52 | 1.6 | 0.84 | | | | | | |

| Maximum ratings (per leg, $T_a = 25^\circ\text{C}$) | | | | | | | |
|---|-----------------|-----------|-----|---------------------------|------------------|--|--|
| Parameter | Symbol | Value | | | Unit | | |
| Maximum repetitive peak reverse voltage | V_{RRM} | 600 | 420 | 600 | V | | |
| Maximum RMS voltage | V_{RMS} | | | | | | |
| Maximum DC blocking voltage | V_{DC} | | | | | | |
| Maximum average forward rectified current | I_o | 10 | 100 | 2.0 | A | | |
| Peak forward surge current, 8.3ms single half sine-wave | I_{FSM} | | | | | | |
| Thermal resistance, junction to ambient air | $R_{\theta JA}$ | 4.0 | 4.0 | $^\circ\text{C}/\text{W}$ | | | |
| | $R_{\theta JC}$ | | | | | | |
| Operating junction temperature range | T_j | 150 | | | $^\circ\text{C}$ | | |
| Storage temperature range | T_{STG} | -40 ~ 150 | | | $^\circ\text{C}$ | | |

| Maximum ratings (per leg, $T_a = 25^\circ\text{C}$) | | | | |
|---|----------|-------|------|------|
| Parameter | Symbol | Value | | Unit |
| | | Typ | Max | |
| Forward voltage drop ¹⁾ | V_F | 1.05 | - | V |
| @ $I_F=3.0\text{A}$ | | 0.84 | - | |
| | | 1.15 | - | |
| | | 0.93 | - | |
| @ $I_F=5.0\text{A}$ | | 1.25 | 1.59 | |
| | | 1.03 | - | |
| @ $I_F=10\text{A}$ | | 50 | 1000 | nA |
| Maximum reverse current @ $V_R=60\text{V}$ | | 2000 | - | |
| Maximum reverse recovery time @ $I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $I_{RR}=0.25\text{A}$ | t_{rr} | - | 35 | ns |
| Notes: | | | | |
| 1) Pulse test: 300 μs pulse width, 1% duty cycle | | | | |



| Ordering information | | | |
|----------------------|-----------|---|------------|
| Part Number | Package | Shipping Quantity | Dimensions |
| MUR1060FAC | TO-220FAC | 50 pcs / tube 1000 pcs / small box 5000 pcs / big box | --- |

Disclaimer

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