



## Product Overview

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### MUR550PF: 520 V, 5.0 A Ultrafast Power Rectifier for Power Factor Correction

For complete documentation, see the data sheet

#### Product Description

The Ultrafast Power Rectifier is designed for power factor correction in discontinuous and critical conduction mode.

#### Features

- Low Forward Voltage Drop
- 520V Rating Meets 80% Derating Requirements of Major OEMs
- Low Leakage
- Ultrafast 95 Nanosecond Recovery Time
- Reduces Forward Conduction Loss

#### Mechanical

- Case: Epoxy, Molded
- Epoxy Meets UL 94 V-0 @ 0.125 in
- Weight:  
MUR550APF: 1.1 Gram (Approximately)  
MUR550PF: 1.9 Gram
- Pb-Free Packages are Available

#### Benefits

- Reduced forward conduction loss

#### Applications

- DCM PFC Designs
- Switching Power Supplies
- Power Inverters

#### End Products

- Power Supply Applications for LCD TV

#### Part Electrical Specifications

| Product      | Compliance             | Status | Type      | $I_{O(Rec)}$ Max (A) | $t_{rr}$ Max (ns) | $V_{RRM}$ Max (V) | $V_{FM}$ Max (V) | $I_{FSM}$ Max (A) | $I_R$ Max (mA) | Package Type |
|--------------|------------------------|--------|-----------|----------------------|-------------------|-------------------|------------------|-------------------|----------------|--------------|
| MUR550APFRLG | Pb-free                | Active | Ultrafast | 5                    | 95                | 520               | 1.15             | 85                | 0.005          | Axial Lead-2 |
| MUR550PFG    | Pb-free                | Active | Ultrafast | 5                    | 95                | 520               | 1.15             | 100               | 0.005          | TO-220-2     |
| MURD550PFT4G | Pb-free<br>Halide free | Active | Ultrafast | 5                    | 95                | 520               | 1.15             | 75                | 0.005          | DPAK-4       |

#### Package Availability

| Type         | Pb-free | Standard |
|--------------|---------|----------|
| DPAK-4       | ✓       | ✓        |
| Axial Lead-2 | ✓       |          |
| TO-220-2     | ✓       |          |

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