

High Efficiency Rectifier

Features

- Low power loss, high efficiency
- Low leakage
- High Surge Capacity
- High switching speed
- High temperature soldering guaranteed:
- 260°C/10 seconds, 0.375" (9.5mm) lead length
- RoHS and REACH Compliance

Mechanical Data

| Case: | Transfer molded plastic |
|--------------------|--|
| Polarity: | Color band denots cathode end |
| Epoxy: | UL94V-0 rate flame retardant |
| Lead: | Plated axial lead, solderable per MIL-STD-202E Method 208C |
| Mounting Position: | Any |
| Weight: | 0.014 ounce, 0.39 gram |

Maximum Ratings (T Ambient=25°C unless noted otherwise)

| Symbol | Description | HER 151 | HER 152 | HER 153 | HER 154 | HER 155 | HER 156 | HER 157 | HER 158 | Unit | Conditions |
|---------|---|--------------------------|------------|------------|------------|------------|------------|------------|------------|----------------|--------------|
| VRRM | Max Recurrent Peak Reverse Voltage | | 100 | 200 | 300 | 400 | 600 | 800 | 1000 | v | |
| VRMS | Max RMS Voltage | 35 | 70 | 140 | 210 | 280 | 420 | 560 | 700 | v | |
| VDC | Max DC Blocking Voltage | 50 | 100 | 200 | 300 | 400 | 600 | 800 | 1000 | v | |
| I(AV) | Max Average Forward Rectified Current 0.375" (9mm) lead length | 1.0 | | | | | | | Α | TA=50 ℃ | |
| IFSM | Peak Forward Surge Current | 30 | | | | | | | | Α | JEDEC method |
| TJ,TSTG | Operating and Storage Temperature Range | -55 to +150, -55 to +150 | | | | | | | C | | |
| Rθ-JA | Typical Thermal Resistance | 40 | | | | | | | °C/W | Note 2 | |

Electrical Characteristics (*T* Ambient=25°C unless noted otherwise)

| Symbol | Description | HER 151 | HER 152 | HER 153 | HER 154 | HER 155 | HER 156 | HER 157 | HER 158 | Unit | Conditions |
|--------|---|------------|------------|------------|------------|------------|------------|------------|------------|------|---|
| VF | Max Instantaneous Forward Voltage | 1.0 | | 1.3 | | 1.5 | | 1.7 | | v | 1.5A |
| IR(AV) | Maximum Full Load Reverse Current, Full Cycle average | | 100 | | | | | | | | 0.375" (9.5mm) lead length at TL= 55 $^\circ\!\!\mathbb{C}$ |
| IR | Max DC Reverse Current at Rated DC Blocking Voltage | | 5.0 250 | | | | | | | | TA=25℃ TA=125℃ |
| TRR | Maximum reverse recovery time | | 50 | | | | 70 | | | | Note 1 |
| C | Typical Junction capacitance | | 30 20 | | | | | | | pF | Measured at 1.0MHz / 4.0V |

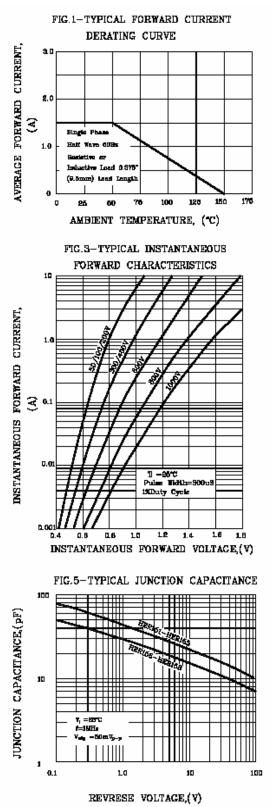
Note:

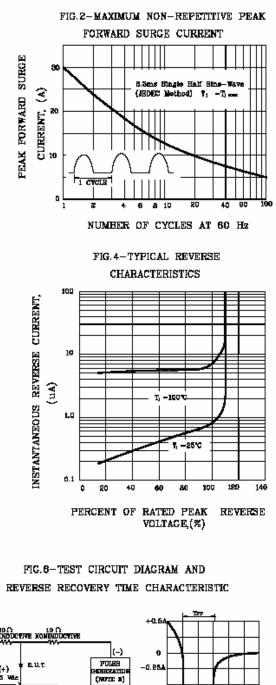
- 1. Reverse recovery test conditions: IF= 0.5A, IR=1.0A, IRR = 0.25A
- 2. Thermal resistance from junction to ambient with 0.375" (9.5mm) lead length, PCB mounted

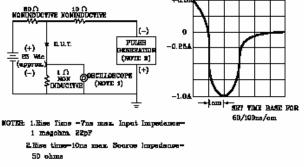


HER151 ~ HER158

RATINGS AND CHARACTERISTIC CURVES HER151 THRU HER158





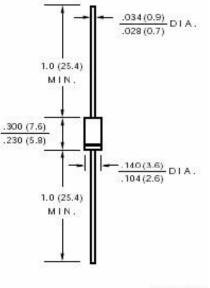




High Efficiency Rectifier

HER151 ~ HER158

Dimensions in inches (mm)



DO-15

Contact us:

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