DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

THRU HER158

HER151

TECHNICAL SPECIFICATIONS OF HIGH EFFICIENCY RECTIFIER

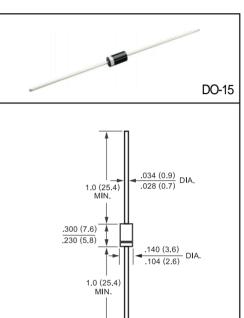
VOLTAGE RANGE - 50 to 1000 Volts

FEATURES

- * Low power loss, high efficiency
- * Low leakage
- * Low forward voltage drop
- * High current capability
- * High speed switching
- * High surge capability
- * High reliability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: MIL-STD-202E, Method 208 guaranteed
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 0.4 gram



Dimensions in inches and (millimeters)

CURRENT - 1.5 Amperes

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

| | SYMBOL | HER151 | HER152 | HER153 | HER154 | HER155 | HER156 | HER157 | HER158 | UNITS |
|--|----------|--------------|--------|--------|--------|--------|--------|--------|--------|-------|
| Maximum Recurrent Peak Reverse Voltage | Vrrm | 50 | 100 | 200 | 300 | 400 | 600 | 800 | 1000 | Volts |
| Maximum RMS Voltage | Vrms | 35 | 70 | 140 | 210 | 280 | 420 | 560 | 700 | Volts |
| Maximum DC Blocking Voltage | VDC | 50 | 100 | 200 | 300 | 400 | 600 | 800 | 1000 | Volts |
| Maximum Average Forward Rectified Current at TA= 50°C | lo | 1.5 | | | | | | | Amps | |
| Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method) | IFSM | 60 | | | | | | | Amps | |
| Maximum Instantaneous Forward Voltage at 1.5A DC | VF | 1.0 1.3 1.7 | | | | | | Volts | | |
| Maximum DC Reverse Current at Rated DC Blocking Voltage TA = 25°C | IR | 5.0 | | | | | | | | uAmps |
| Maximum Full Load Reverse Current Average, Full Cycle .375*(9.5mm) lead length at T L = 55°C | IR | 100 | | | | | | | | uAmps |
| Maximum Reverse Recovery Time (Note 1) | trr | | 50 | | | | | 75 | | nSec |
| Typical Junction Capacitance (Note 2) | CJ | 30 | | | | | 20 | | pF | |
| Operating and Storage Temperature Range | TJ, TSTG | -65 to + 150 | | | | | | | | °C |

NOTES: 1. Test Conditions: IF = 0.5A, IR = 1.0A, IRR = 0.25A

2. Measured at 1 MHz and applied reverse voltage of 4.0 volts











