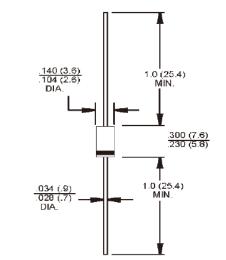




HER201 - HER207 2.0AMPS High Efficient Rectifiers

DO-15



Dimensions in inches and (millimeters)

Marking Diagram

HER20X = Specific Device Code
G = Green Compound
Y = Year
WW = Work Week

Features

- ♦ High efficiency, Low VF
- High current capability
- ♦ High reliability
- High surge current capability
- For use in low voltage, high frequency inventor, free wheeling, and polarity protection application
- ♦ Green compound with suffix "G" on packing code & prefix "G" on datecode

Mechanical Data

- ♦ Case: Molded plastic
- ♦ Epoxy: UL 94V-0 rate flame retardant
- Lead: Pure tin plated, lead free, solderable per MIL-STD-202, Method 208 guaranteed
- ♦ Polarity: Color band denotes cathode
- ♦ High temperature soldering guaranteed: 260 °C /10s /.375", (9.5mm) lead lengths at 5 lbs, (2.3kg) tension
- ♦ Weight: 0.40 grams

Maximum Ratings and Electrical Characteristics

For capacitive load, derate current by 20%

| Symbol | HER 201 | HER 202 | HER 203 | HER 204 | HER 205 | HER 206 | HER 207 | Unit |
|---------------------------------|---|--------------|--------------------|--------------------------|---|--|--|--|
| V_{RRM} | 50 | 100 | 200 | 300 | 400 | 600 | 800 | V |
| V_{RMS} | 35 | 70 | 140 | 210 | 280 | 420 | 560 | V |
| V_{DC} | 50 | 100 | 200 | 300 | 400 | 600 | 800 | V |
| I _{F(AV)} | 2 | | | | | | | Α |
| I _{FSM} | 60 | | | | | | А | |
| V _F | 1.0 1.3 | | | 1.3 | 1.7 | | ٧ | |
| I _R | 5 150 | | | | | | | uA |
| Trr | 50 75 | | | | | nS | | |
| Cj | 50 35 | | | | | pF | | |
| $R_{	heta j A} \ R_{	heta j C}$ | 60 8 | | | | | | °C/W | |
| TJ | - 65 to + 150 | | | | | | οС | |
| T _{STG} | - 65 to + 150 | | | | | | οС | |
| | VRRM VRMS VDC IF(AV) IFSM VF IR Trr Cj Reja Rejc TJ | Symbol 201 | Symbol 201 202 | Symbol 201 202 203 | Symbol 201 202 203 204 V _{RRM} 50 100 200 300 V _{RMS} 35 70 140 210 V _{DC} 50 100 200 300 I _{F(AV)} 2 I _{FSM} 60 V _F 1.0 I _R 5 Trr 50 Cj 50 R _{θjA} 60 R _{θjC} 8 T _J -65 to + 1 | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | Symbol 201 202 203 204 205 206 V _{RRM} 50 100 200 300 400 600 V _{RMS} 35 70 140 210 280 420 V _{DC} 50 100 200 300 400 600 I _{F(AV)} 2 60 60 1.3 1 I _R 5 150 7 Cj 50 7 3 R _{θjA} 60 8 T _J -65 to + 150 | Symbol 201 202 203 204 205 206 207 V _{RRM} 50 100 200 300 400 600 800 V _{RMS} 35 70 140 210 280 420 560 V _{DC} 50 100 200 300 400 600 800 I _{F(AV)} 2 60 60 75< |

HER20X

5GYWW

Note 1: Pulse Test with PW=300 usec, 1% Duty Cycle

Note 2: Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A

Note 3: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.



RATINGS AND CHARACTERISTIC CURVES (HER201 THRU HER207)

