

HER30X / UF300X SERIES

HIGH EFFICIENCY (ULTRA FAST) RECTIFIERS

REVERSE VOLTAGE - 50 to 1000 Volts FORWARD CURRENT - 3.0 Amperes

FEATURES

- Low cost
- Diffused junction
- Ultra fast switching for high efficiency
- Low reverse leakage current
- Low forward voltage drop
- High current capability
- The plastic material carries UL recognition 94V-0

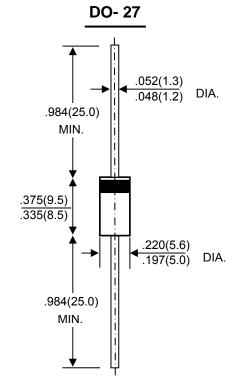
MECHANICAL DATA

●Case: JEDEC DO-27 molded plastic

Polarity: Color band denotes cathode

●Weight: 0.04ounces, 1.1grams

Mounting position: Any



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

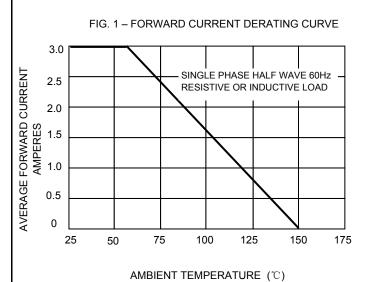
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|--|---------|-------------|--------|--------|--------|--------|--------|--------|--|------|
| CHARACTERISTICS | SYMBOL | HER301 | HER302 | HER303 | HER304 | HER305 | HER306 | HER307 | HER308 | UNIT |
| | STWIBOL | UF3001 | UF3002 | UF3003 | UF3004 | UF3005 | UF3006 | UF3007 | UF3008 | |
| Maximum Recurrent Peak Reverse Voltage | VRRM | 50 | 100 | 200 | 300 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS Voltage | VRMS | 35 | 70 | 140 | 210 | 280 | 420 | 560 | 700 | V |
| Maximum DC Blocking Voltage | VDC | 50 | 100 | 200 | 300 | 400 | 600 | 800 | 1000 | V |
| Maximum Average Forward Rectified Current @Ta =55 ℃ | I(AV) | 3.0 | | | | | | | | Α |
| Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method) | IFSM | 150 | | | | | | | | Α |
| Peak Forward Voltage at 3.0A DC | VF | 1.0 1.3 | | | | 1.7 | | V | | |
| Maximum DC Reverse Current @TJ=25℃ at Rated DC Blocking Voltage @TJ=100℃ | lr | 5.0 100 | | | | | | | μA | |
| Maximum Reverse Recovery Time(Note 1) | Trr | 50 75 | | | | | | nS | | |
| Typical Junction Capacitance (Note2) | CJ | 50 30 | | | | | | | pF | |
| Typical Thermal Resistance (Note3) | Reja | 20 | | | | | | | °C/W | |
| Operating Temperature Range | TJ | -55 to +150 | | | | | | | $^{\circ}\!$ | |
| Storage Temperature Range | Tstg | -55 to +150 | | | | | | | $^{\circ}$ C | |
| | - | • | | | | | | | | |

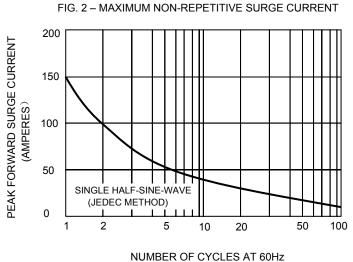
NOTES: 1.Measured with IF=0.5A, IR=1A, IRR=0.25A

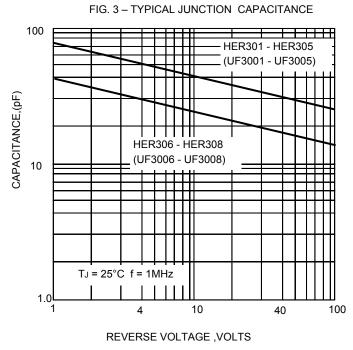
- 2.Measured at 1.0 MHz and applied reverse voltage of 4.0V DC $\,$
- 3. Thermal resistance junction to ambient
- 4.The typical data above is for reference only(典型值仅供参考).

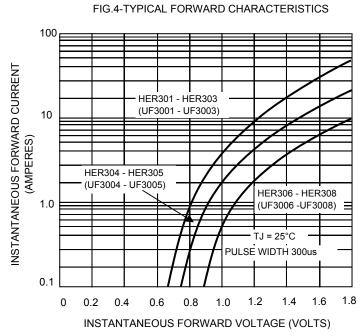
Rev. 7, 13-Mar-2017











The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!



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