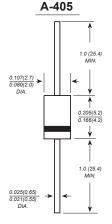


HER101S THRU HER108S

HIGH EFFICIENCY RECTIFIERS

Reverse Voltage - 50 to 1000 Volts Forward Current - 1.0 Ampere



Dimensions in inches and (millimeters)

FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- High speed switching for high efficiency
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds,0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: JEDEC A-405 molded plastic body Terminals: Plated axial leads, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.008 ounce, 0.23 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

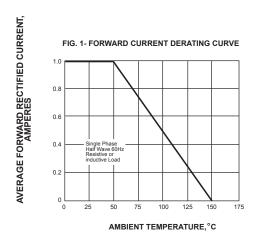
| | SYMBOLS | HER 101S | HER 102S | HER 103S | HER 104S | HER 105S | HER 106S | HER 107S | HER 108S | UNITS |
|--|---------|-----------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------|
| Maximum repetitive peak reverse voltage | VRRM | 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 | l(AV) | I _(AV) 1.0 | | | | | | | | Amps |
| 0.375"(9.5mm) lead length at Ta=50°C | .(, | | | | | | | | | 711100 |
| Peak forward surge current | | | | | | | | | | |
| 8.3ms single half sine-wave superimposed on | IFSM | 30.0 | | | | | | | Amps | |
| rated load (JEDEC Method) | | | | | | | | | | |
| Maximum instantaneous forward voltage at 1.0A | VF | 1.0 | | 1.3 | | 1.70 | | | Volts | |
| Maximum DC reverse current Ta=25°C | | | 5.0 | | | | | | μА | шА |
| at rated DC blocking voltage Ta=100℃ | lR | 100.0 | | | | | | | μΑ | |
| Maximum reverse recovery time (NOTE 1) | trr | 50 | | | 70 | | ns | | | |
| Typical junction capacitance (NOTE 2) | Cı | 15.0 | | | 12.0 | | pF | | | |
| Typical thermal resistance (NOTE 3) | Reja | 50.0 | | | | | | °C/W | | |
| Operating junction and storage temperature range | Тл,Твтс | -65 to +150 | | | | | | | °C | |

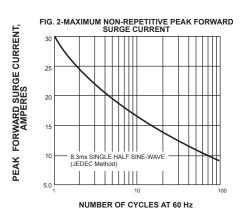
Note: 1. Reverse recovery condition IF=0.5A, IR=1.0A, Irr=0.25A

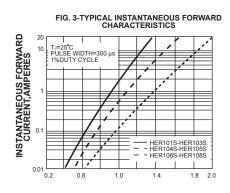
2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

3. Thermal resistance from junction to ambient at 0.375" (9.5mm)lead length, P.C.B. mounted

RATINGS AND CHARACTERISTIC CURVES HER101S THRU HER108S







INSTANTANEOUS FORWARD VOLTAGE,

VOLTS

