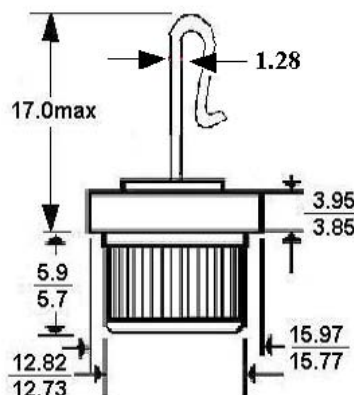


HPFR3501~3506 N/ P

## Description



## Mechanical Dimensions



## TIN CAN

Dimensions in inches and (millimeters)

### Features

- ★ Low forward voltage drop
- ★ High current capability
- ★ High reliability
- ★ High surge current capability

### Mechanical Data

- ★ Case: OFC Heat Sink
- ★ Encap: Epoxy Sealed Rated UL94V-0
- ★ Weight: 4.92 gram

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

|                                                                                                         | SYMBOL   | HPFR3502    | HPFR3504 | HPFR3506 | UNIT     |
|---------------------------------------------------------------------------------------------------------|----------|-------------|----------|----------|----------|
| Maximum Peak Repetitive Reverse Voltage@Irrm=10uA                                                       | VRRM     | 200         | 400      | 600      | V        |
| Maximum RMS Voltage                                                                                     | VRMS     | 140         | 280      | 420      | V        |
| Maximum DC Blocking Voltage(TA=25°C)                                                                    | VB       | 200         | 400      | 600      | V        |
| Maximum Average Forward Current Io@Tc=150°C<br>60 Hz, resistive or inductive load                       | I(AV)    | 35          |          |          | A        |
| Peak Forward Surge Current, 8.3ms single<br>Half sine-wave superimposed on rated load<br>(JEDEC method) | IFSM     | 400         |          |          | A        |
| Maximum Inst. Forward Voltage Drop,<br>If at 80Amp                                                      | VF       | 1.2         |          |          | V        |
| Maximum DC Reverse Current (VB)@TJ=25°C<br>At Rated DC Blocking Voltage (VB)@TJ=175°C                   | IR       | 10<br>500   |          |          | uA<br>uA |
| Operating Junction and Storage Temperature Range                                                        | TJ, TSTG | -40 to +175 |          |          | °C       |

## RATINGS AND CHARACTERISTIC CURVES HPFR3502 ~HPFR3506

FIG.1 - FORWARD CURRENT DERATING CURVE

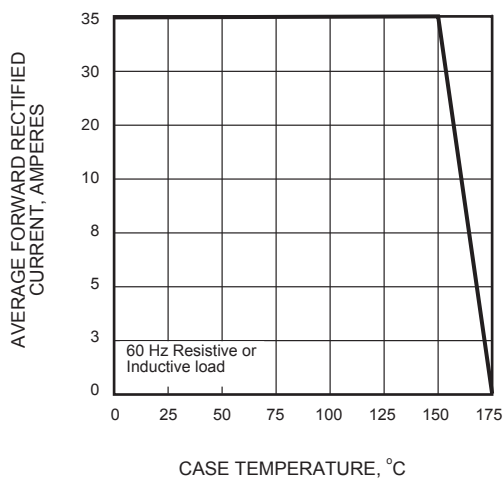


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

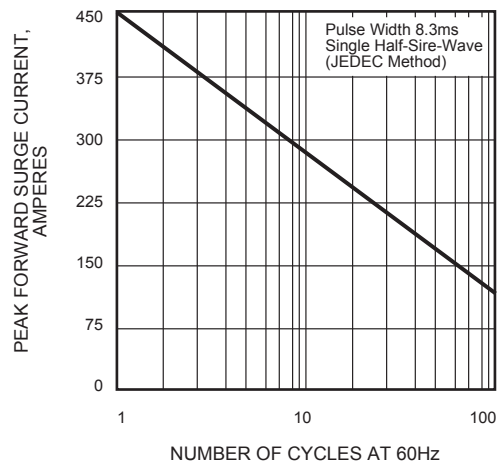


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

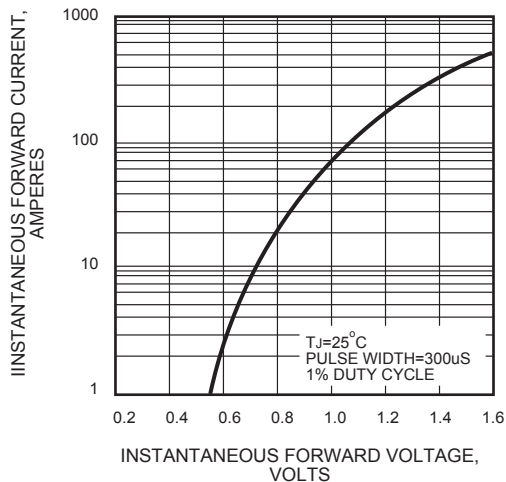


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

