



PD5002P(N) thru PD5006P(N)

| GLASS PASSIVATED AUTO RECTIFIERS | REVERSE VOLTAGE -200 to 600Volts FORWARD CURRENT -50 Amperes | | | | | | |
|---|--|------------|--|---|-------|---|-------|
| <p>FEATURES</p> <ul style="list-style-type: none"> ● Low forward volage drop ● High current capability ● High reliability ● High surge current capability <p>MECHANICAL</p> <ul style="list-style-type: none"> ● Case: OFC Heat Sink ● Encap:Epoxy Sealed Rated UL94V-0 ● Weight: 7.05gram | <p>PRESS-FIT</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr> <th colspan="2">Ring color</th> </tr> <tr> <td>P</td> <td>Black</td> </tr> <tr> <td>N</td> <td>Brown</td> </tr> </table> <p style="text-align: center;">Dimensions in inches and (millimeters)</p> | Ring color | | P | Black | N | Brown |
| Ring color | | | | | | | |
| P | Black | | | | | | |
| N | Brown | | | | | | |

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C unless otherwise specified.

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

For capacitive load, derate current by 20%

| CHARACTERISTICS | SYMBOL | PD5002P(N) | PD5004P(N) | PD5006P(N) | UNIT |
|--|---------|------------|------------|------------|------|
| | MARKING | 5002 | 5004 | 5006 | |
| 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 60Hz, resistive or inductive load | I(AV) | 50 | | | A |
| Peak Forward Surage Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method) | IFSM | 600 | | | A |
| Maximum Inst. Forward Voltage Drop, IF at 100Amp | VF | 1.1 | | | V |
| Maximum DC Reverse Current (VB)@TJ=25°C At Rated DC Bolcking Voltage (VB)@TJ=175°C | IR | 10 500 | | | uA |
| Operating Temperature Range | TJ | -40to+200 | | | °C |
| Storage Temperature Range | TSTG | -40to+200 | | | °C |

RATING AND CHARACTERISTIC CURVES
PD5002P(N) thru PD5006P(N)



FIG.1-FORWARD CURRENT DERATING CURVE

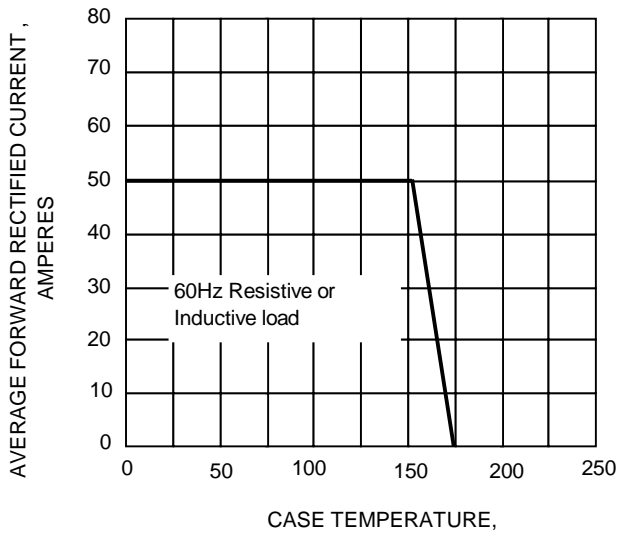


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

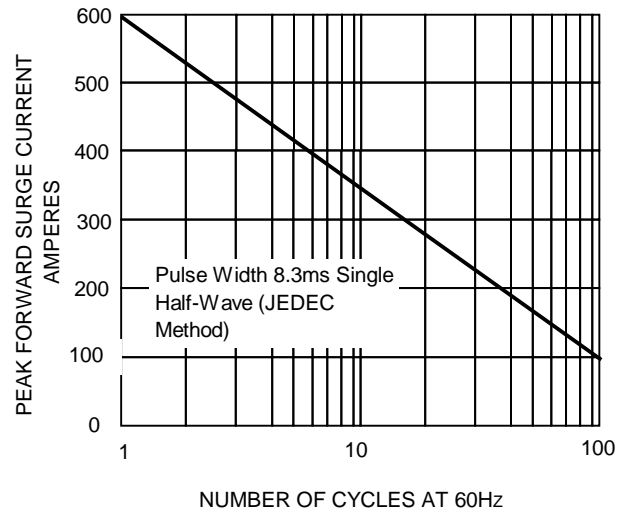


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

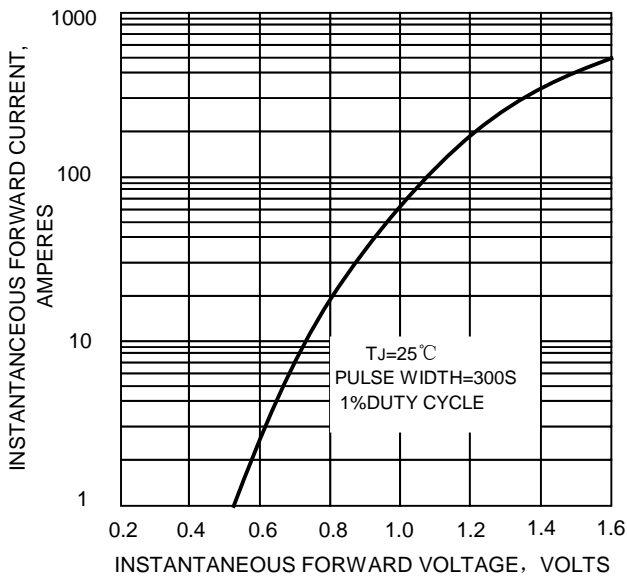


FIG.4-TYPICAL REVERSE CHARACTERISTICS

