



PD5018P(N) thru PD5030P(N)

| GLASS PASSIVATED AUTO RECTIFIERS | REVERSE VOLTAGE -19 to 45Volts 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;"> <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>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 | PD5018P(N) | PD5020P(N) | PD5030P(N) | UNIT |
|---|---------|------------|------------|------------|------|
| | MARKING | 5018 | 5020 | 5030 | |
| Maximum Peak Repetitive Reverse Voltage @Irrm=100mA | VRRM | 19-24 | 24-32 | 34-45 | V |
| Maximum RMS Voltage | VRMS | 16 | 20 | 28 | V |
| Maximum DC Blocking Voltage (TA=25°C) | VB | 16 | 20 | 28 | V |
| Maximum Average Forward Current Io@Tc=150°C 60Hz, resistive or inductive load | I(AV) | 50 | | | A |
| Peak Forward Surge 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 | 1.05 | | | V |
| Maximum DC Reverse Current (VB)@Tj=25°C At Rated DC Bolcking Voltage (VB)@Tj=175°C | IR | 10 150 | | | uA |
| Operating Temperature Range | TJ | -40to+175 | | | °C |
| Storage Temperature Range | TSTG | -40to+175 | | | °C |

FIG.1-FORWARD CURRENT DERATING CURVE

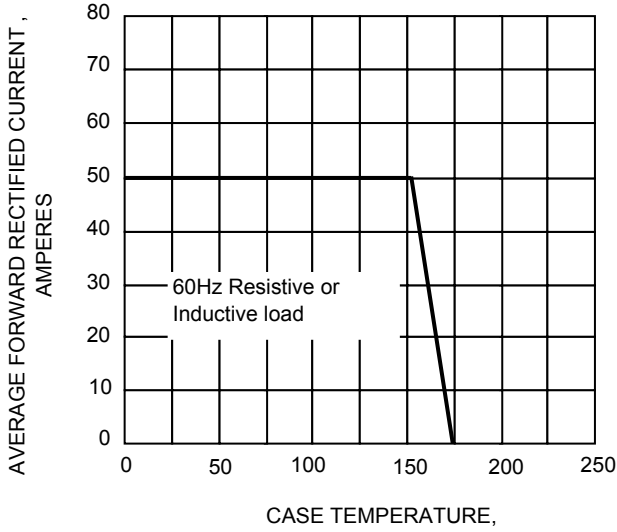


FIG.2-MAXIMUM NON-RETETITIVE PEAK FORWARD SURGE CURRENT

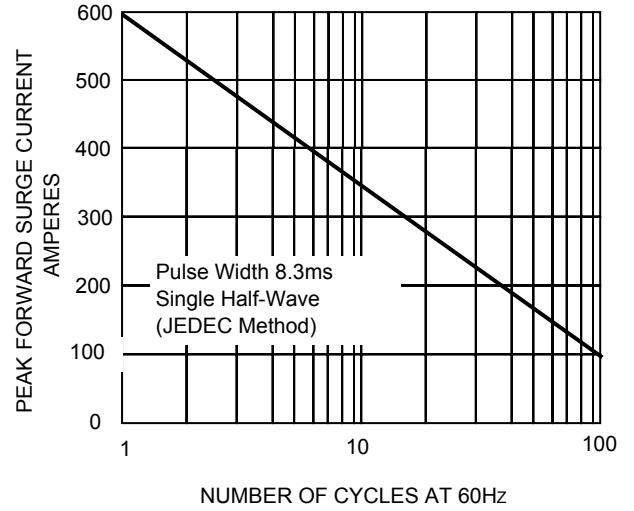


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

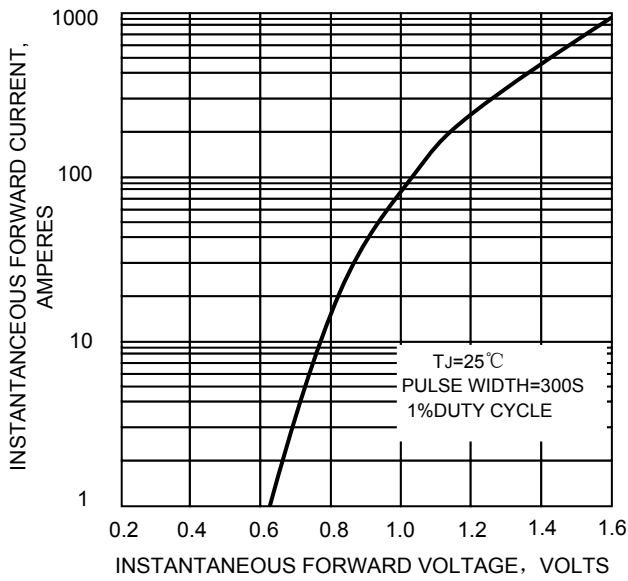
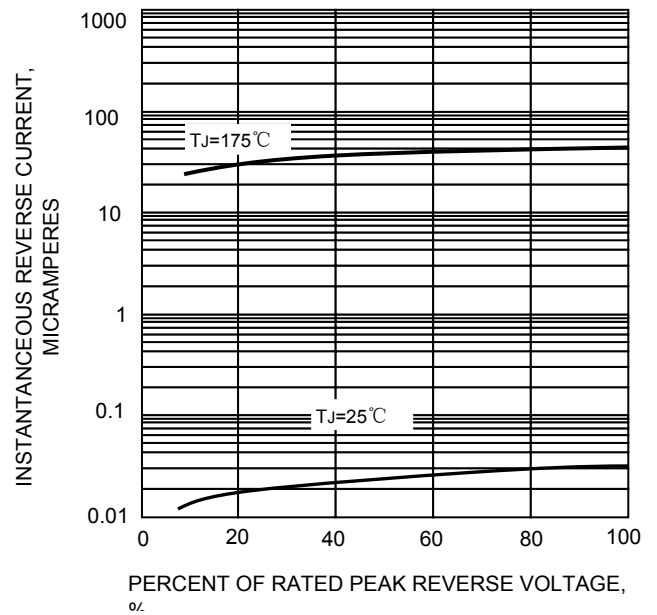


FIG.4-TYPICAL REVERSE CHARACTERISTICS



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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