

BYV26AGP THRU BYV26EGP

**SINTERED GLASS JUNCTION
FAST SWITCHING PLASTIC RECTIFIER**
VOLTAGE: 200V to 1000V CURRENT: 1.0A

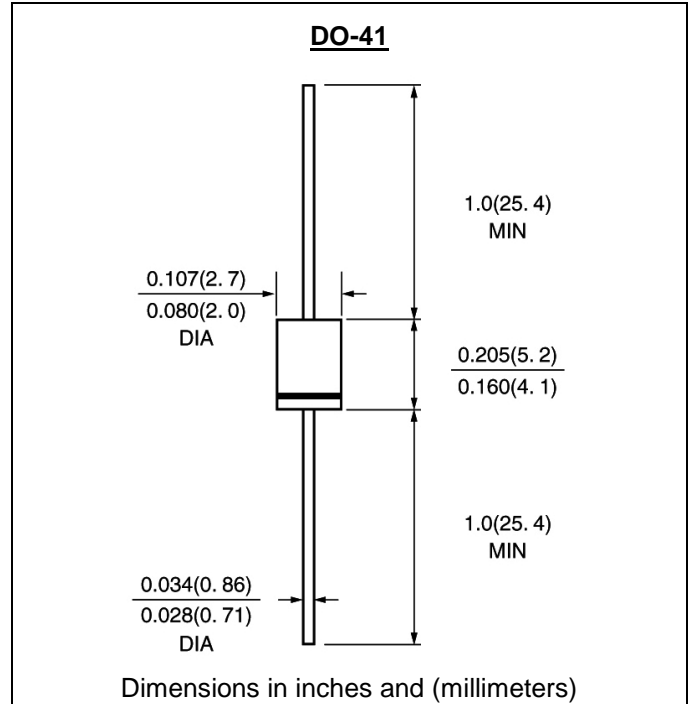


FEATURE

High temperature metallurgically bonded construction
Sintered glass cavity free junction
Capability of meeting environmental standard of MIL-S-19500
High temperature soldering guaranteed
350°C /10sec/0.375"lead length at 5 lbs tension
Operate at Ta =55°C with no thermal run away
Typical Ir<0.1µA

MECHANICAL DATA

Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C
Case: Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy
Polarity: color band denotes cathode
Mounting position: any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

| | SYMBOL | BYV26 AGP | BYV26 BGP | BYV26 CGP | BYV26 DGP | BYV26 EGP | units |
|--|-----------------------------------|--------------|--------------|--------------|--------------|--------------|----------|
| Maximum Recurrent Peak Reverse Voltage | V _{rrm} | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS Voltage | V _{rms} | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC blocking Voltage | V _{dc} | 200 | 400 | 600 | 800 | 1000 | V |
| Reverse avalanche breakdown voltage at I _R = 0.1 mA | V _{(BR)R} (min) | 300 | 500 | 700 | 900 | 1100 | V |
| Maximum Average Forward Rectified Current 3/8"lead length at Ta =55°C | I _{f(av)} | 1.0 | | | | | A |
| Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load | I _{fsm} | 30 | | | | | A |
| Maximum Forward Voltage at rated Forward Current and 50°C | V _f | 2.5 | | | | | V |
| Non-repetitive peak reverse avalanche energy (Note 1) | E _{rsm} | 10 | | | | | mJ |
| Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =150°C | I _r | 5.0 150.0 | | | | | µA µA |
| Maximum Reverse Recovery Time (Note 2) | T _{rr} | 30 | | | 75 | | nS |
| Typical Junction Capacitance (Note 3) | C _j | 15.0 | | | | | pF |
| Typical Thermal Resistance (Note 4) | R _{θ ja} | 55.0 | | | | | °C/W |
| Storage and Operating Junction Temperature | T _{stg} , T _j | -65 to +175 | | | | | °C |

Note: 1.R=400mA; T_j=T_{jmax} prior to surge; inductive load switched off
2.Reverse Recovery Condition I_f =0.5A, I_r =1.0A, I_{rr} =0.25A
3.Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
4.Thermal Resistance from Junction to Ambient at 3/8"lead length, P.C. Board Mounted

RATINGS AND CHARACTERISTIC CURVES BYV26AGP THRU BYV26EGP

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FIG. 1 - FORWARD CURRENT DERATING CURVE

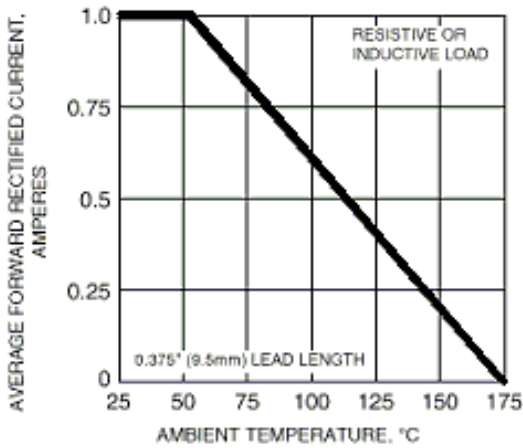


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

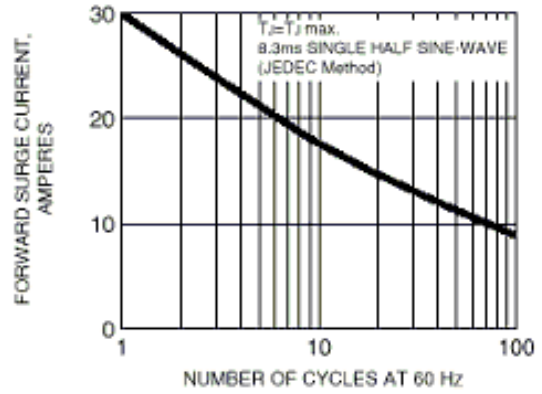


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

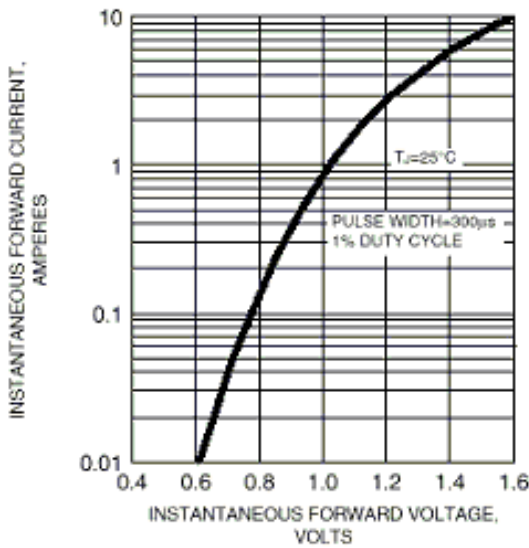


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

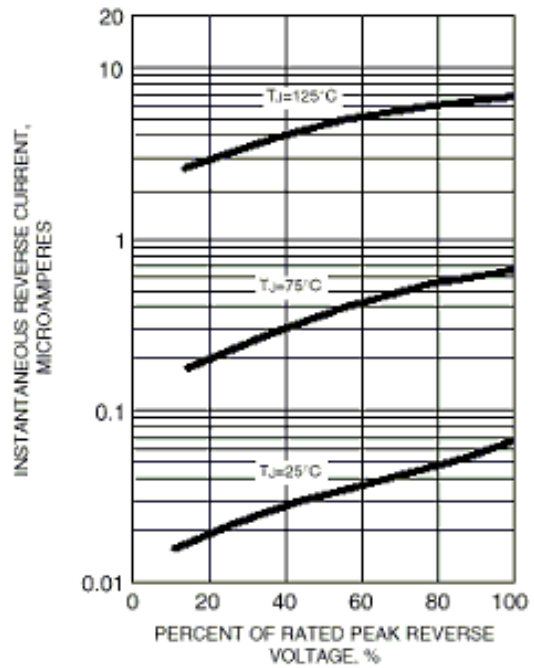


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

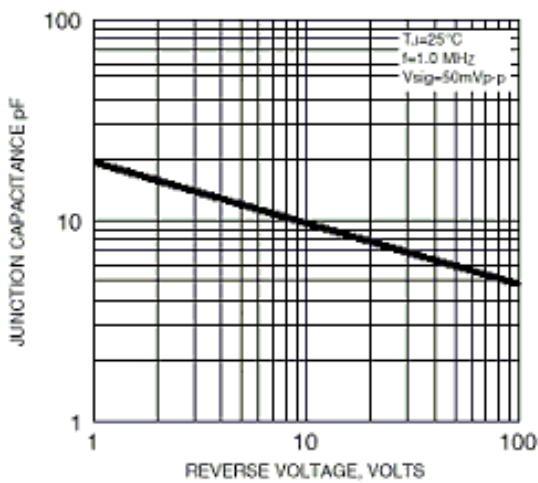


FIG. 6 - TYPICAL TRANSIENT THERMAL IMPEDANCE

