

# BYV26FGP BYV26GGP

## SINTERED GLASS JUNCTION

### FAST SWITCHING PLASTIC RECTIFIER

VOLTAGE: 1200V to 1400V

CURRENT: 1.0A



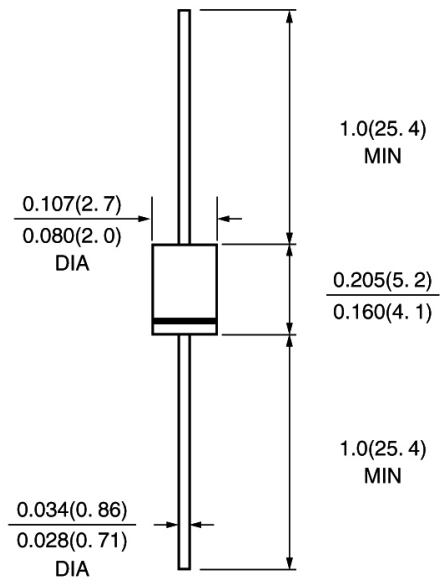
#### FEATURE

High temperature metallurgic ally 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 =85°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

#### DO-41\DO-204AL



Dimensions in inches and (millimeters)

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	SYMBOL	BYV26FGP	BYV26GGP	units
Maximum Recurrent Peak Reverse Voltage	V <sub>rrm</sub>	1200	1400	V
Maximum RMS Voltage	V <sub>rms</sub>	840	980	V
Maximum DC blocking Voltage	V <sub>dc</sub>	1200	1400	
Reverse avalanche breakdown voltage at IR = 0.1 mA	V(BR) <sub>R</sub> (min)	1300	1500	V
Maximum Average Forward Rectified Current 3/8"lead length at Ta =55°C	I <sub>f(av)</sub>	1.0		A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I <sub>fsm</sub>	30		A
Maximum Forward Voltage at rated Forward Current and 50°C	V <sub>f</sub>	2.15		V
non-repetitive peak reverse avalanche energy (Note 1)	E <sub>rsm</sub>	10		mJ
Maximum full load reverse current full cycle average at 65°C Ambient	I <sub>r(av)</sub>	100.0		µA
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =150°C	I <sub>r</sub>	5.0	150.0	µA µA
Maximum Reverse Recovery Time (Note 1)	T <sub>rr</sub>	150		nS
Typical Junction Capacitance (Note 2)	C <sub>j</sub>	20.0		pF
Typical Thermal Resistance (Note 3)	R(ja)	55.0		°C /W
Storage and Operating Junction Temperature	T <sub>stg</sub> , T <sub>j</sub>	-65 to +175		°C

Note: 1.IR=400mA; Tj=Tjmax prior to surge; inductive load switched off  
 2.Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =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 BYV26GP

FIG. 1 - FORWARD CURRENT DERATING CURVE

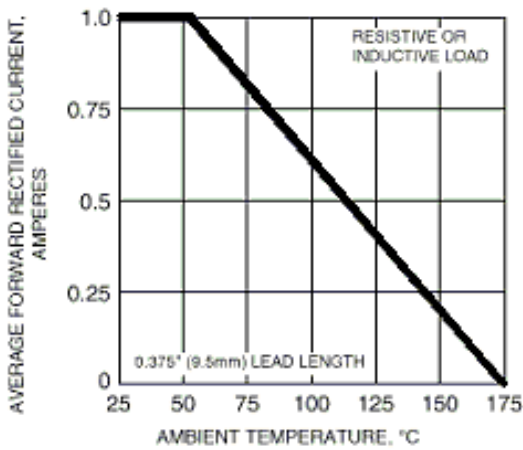


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

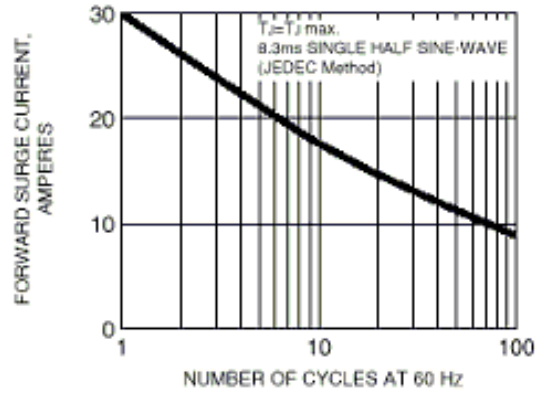


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

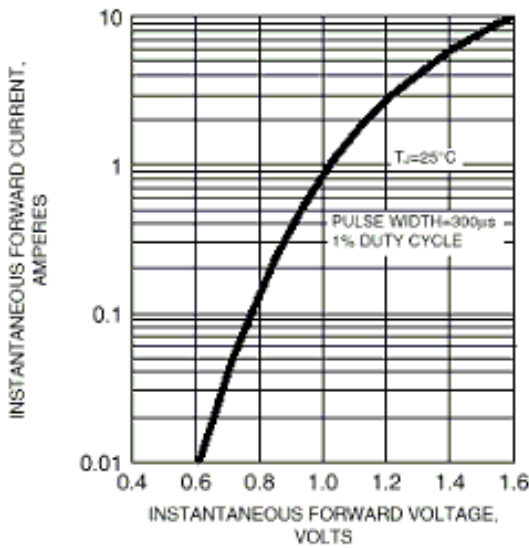


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

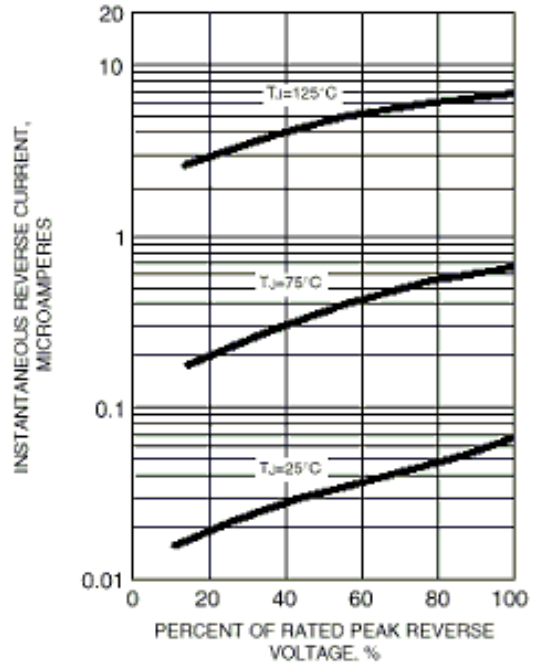


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

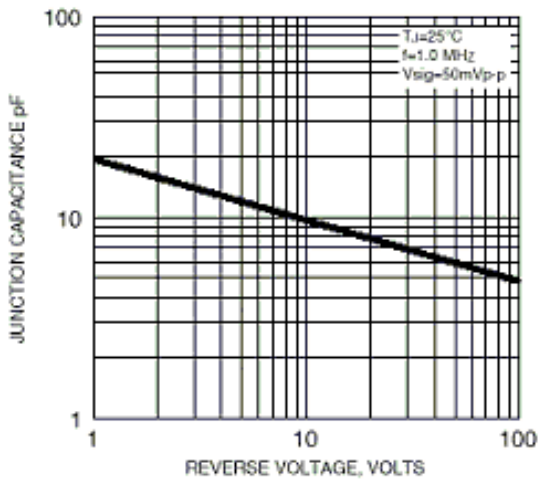


FIG. 6 - TYPICAL TRANSIENT THERMAL IMPEDANCE

