BYW82GP THRU BYW86GP

SINTERED GLASS JUNCTION PLASTIC RECTIFIER

VOLTAGE:200 TO 1000V CURRENT: 3.0A



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 =65°C with no thermal run away Typical Ir<0.1μA

MECHANICAL DATA

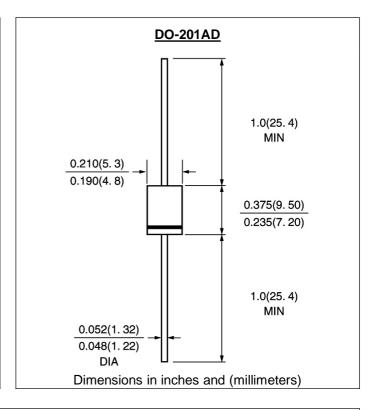
Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C

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, for capacitive load, derate current by 20%)

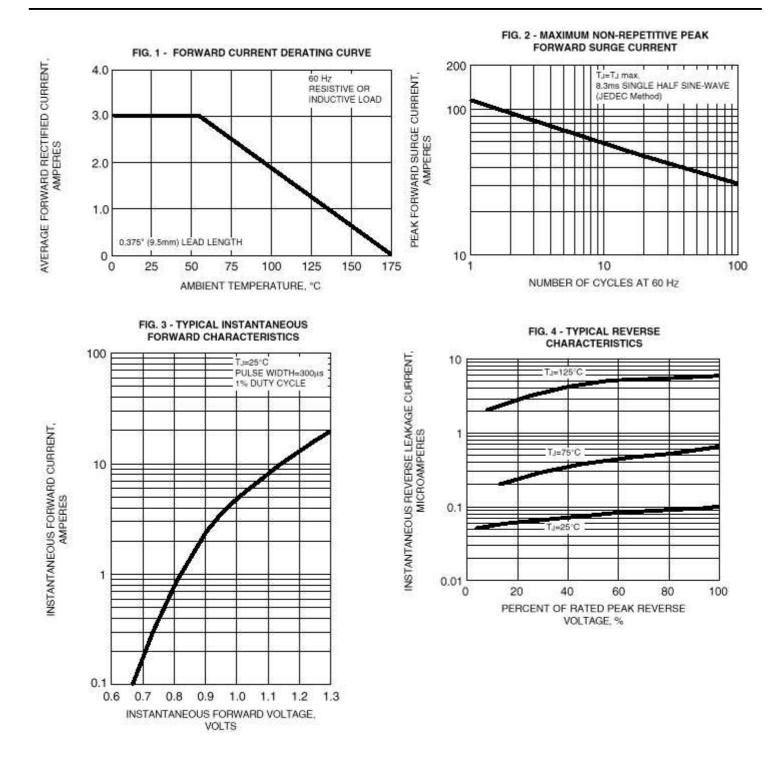
	SYMBOL	BYW 82GP	BYW 83GP	BYW 84GP	BYW 85GP	BYW 86GP	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	200	400	600	800	1000	V
Maximum RMS Voltage	Vrms	140	280	420	560	700	V
Maximum DC blocking Voltage	Vdc	200	400	600	800	1000	V
Maximum Average Forward Rectified Current 3/8"lead length at Ta =65°C	If(av)			3.0			А
Peak Forward Surge Current 8.3ms single Half sine-wave superimposed on rated load	Ifsm	100.0					А
Maximum Instantaneous Forward Voltage IF=3.0A	Vf			1.0			V
non-repetitive peak reverse avalanche energy (Note 1)	Ersm	20					mJ
Maximum DC Reverse Current Ta =25°C		5.0					μΑ
at rated DC blocking voltage Ta =125°C	lr	100.0					μΑ
Typical Reverse Recovery Time (Note 2)	Trr	4.0					μS
Typical Junction Capacitance (Note3)	Cj	100.0					pF
Typical Thermal Resistance (Note 4)	R(ja)	20.0					°C /W
Storage and Operating Junction Temperature	Tstg, Tj	-65 to +175					°C

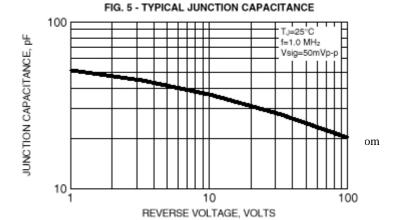
Note: 1.L = 120 mH; Tj = Tj max prior to surge; inductive load switched off.

- 2.Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A
- 3. Measured at 1.0 MHz and applied reverse voltage of 4.0 Vdc
- 4. Thermal Resistance from Junction to Ambient at 3/8"lead length, P.C. Board Mounted

Rev.A2 www.gulfsemi.com

RATINGS AND CHARACTERISTIC CURVES BYW82GP THRU BYW86GP





¹ Rev.A2