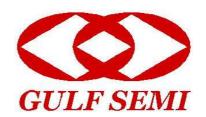
BY203-20S

SINTERED GLASS JUNCTION FAST SWITCHING PLASTIC RECTIFIER

VOLTAGE: 2000V CURRENT: 0.25A



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<0.5µA

MECHANICAL DATA

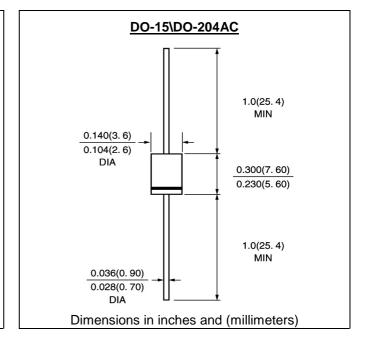
Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C

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	BY203-20S	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	2000	V
Maximum RMS Voltage	Vrms	1400	V
Maximum DC blocking Voltage	Vdc	2000	V
Maximum Average Forward Rectified Current 3/8"lead length at Ta =55°C	If(av)	0.25	Α
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	10.0	Α
Maximum Forward Voltage at rated Forward Rectified Current and 25°C	Vf	6.0	V
Maximum full load reverse current full cycle Average at 55°C Ambient	Ir(av)	100	μΑ
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =125°C	lr	10.0 300.0	μΑ
Maximum Reverse Recovery Time (Note 1)	Trr	75	nS
Typical Junction Capacitance (Note 2)	Cj	5.0	pF
Typical Thermal Resistance (Note 3)	Rth(ja)	65.0	°C /W
Storage and Operating Junction Temperature	Tstg, Tj	-65 to +175	°C

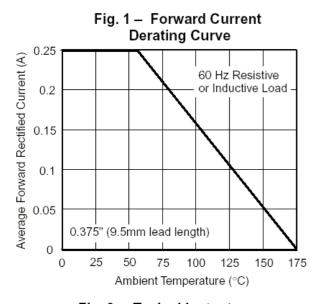
Note:

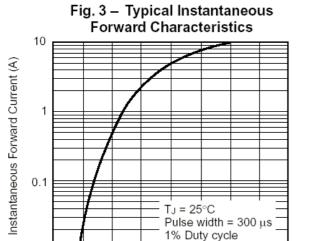
- 1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A
- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- 3. Thermal Resistance from Junction to Ambient at 3/8"lead length, P.C. B

4. Board Mounted

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RATINGS AND CHARACTERISTIC CURVES BY203-20S





3.0

Instantaneous Forward Voltage (V)

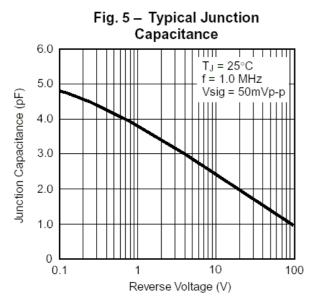
5.0

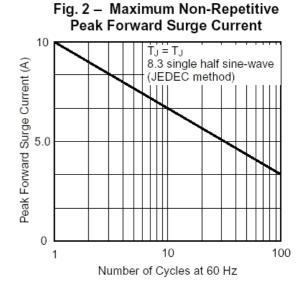
4.0

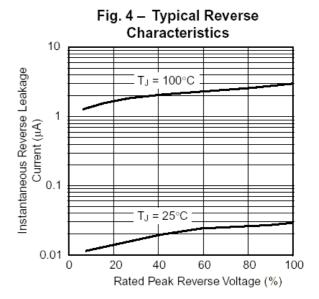
0.01

1.0

2.0







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