RDB105S

SINGLE PHASE GLASS PASSIVATED
FAST RECOVERY
SURFACE MOUNT BRIDGE RECTIFIER
VOLTAGE:600V CURRENT:1.0A

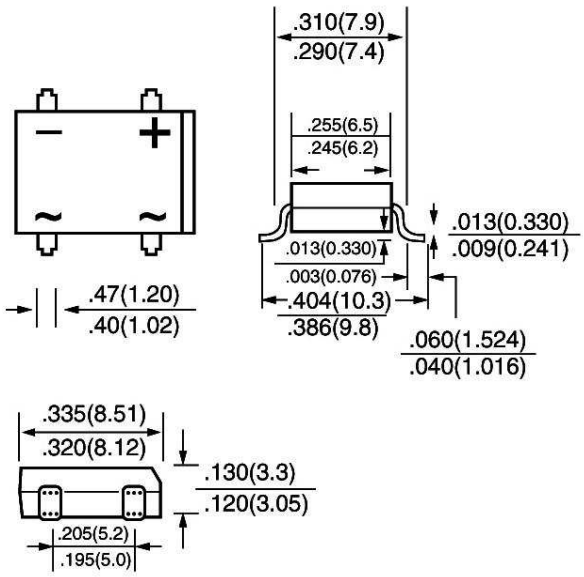
GULF SBMI

FEATURE

For surface mount application
Reliable low cost construction utilizing molded plastic Technique

MECHANICAL DATA

Terminal: Plated leads solderable per MIL-STD 202E, method 208C
Case:UL-94 Class V-0 recognized Flame Retardant Epoxy
Polarity: Polarity symbol marked on body
Mounting position: any



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, for capacitive load, derate current by 20%)

	SYMBOL	RDB 105S	Units
Maximum Recurrent Peak Reverse Voltage	Vrrm	600	V
Maximum RMS Voltage	Vrms	420	V
Maximum DC blocking Voltage	Vdc	600	V
Maximum Average Forward Rectified Current at Ta =40°C	If(av)	1.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	30.0	A
Maximum Instantaneous Forward Voltage at forward current 1.0A	Vf	1.3	V
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =125°C	Ir	10.0 500.0	μA mA
Maximum Reverse Recovery Time (Note 1)	Trr	250	nS
Typical Junction Capacitance (Note 2)	Cj	25.0	Pf
Operating Temperature Range	Tj	-55 to +125	°C
Storage and Operating Junction Temperature	Tstg	-55 to +150	°C

Note:
1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A
2. Measured at 1.0 MHz and applied voltage of 4.0 volt

RATINGS AND CHARACTERISTIC CURVES RDB105S

[1]

Figure 1. Maximum Forward Current Derating Curve

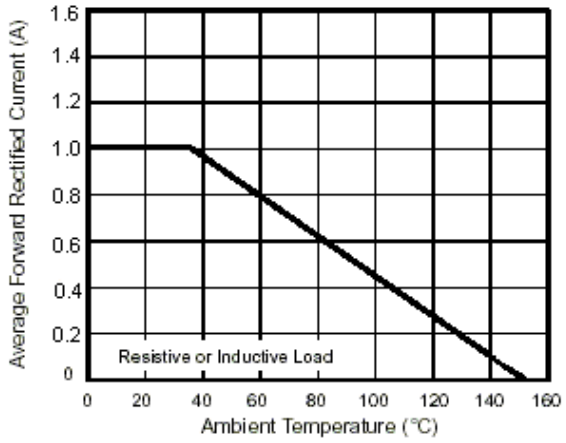


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current Per Leg

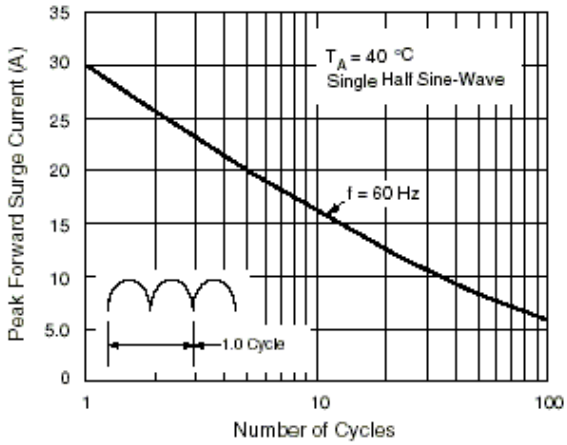


Figure 3. Typical Instantaneous Forward Characteristics Per Leg

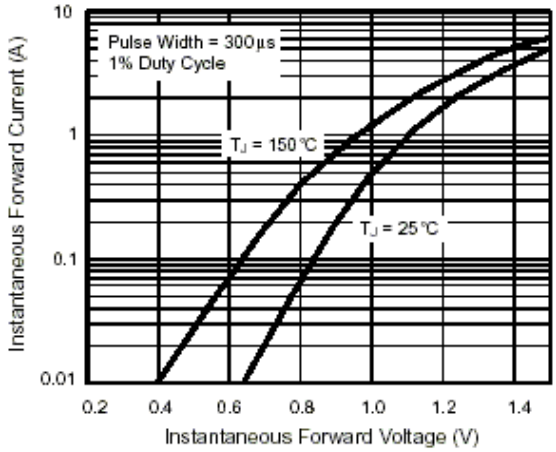


Figure 4. Typical Reverse Leakage Characteristics Per Leg

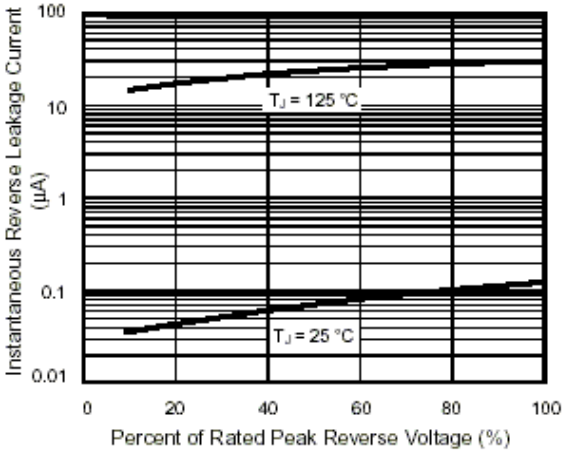
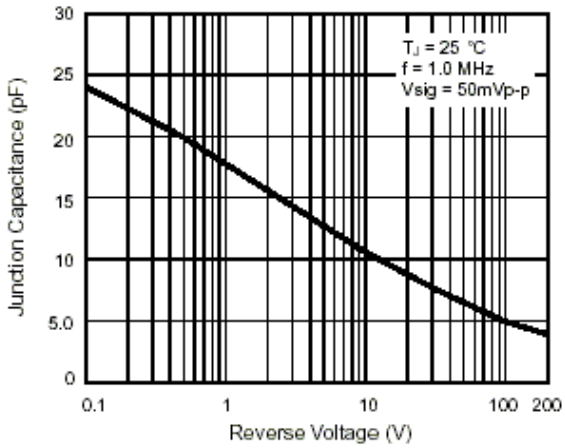


Figure 5. Typical Junction Capacitance Per Leg



[1] Rev.A5