RDB105S

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



FEATURE

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

MECHANICAL DATA

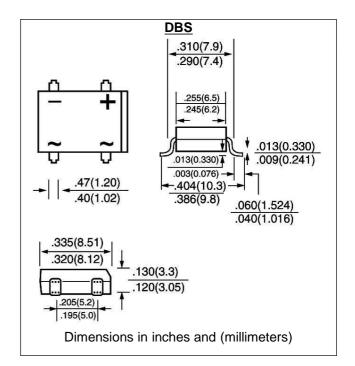
Terminal: Plated leads solderable per

MIL-STD 202E, method 208C

Case:UL-94 Class V-0 recognized Flame Retardant Epoxy

Polarity: Polarity symbol marked on body

Mounting position: any



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	А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	30.0	А
Maximum Instantaneous Forward Voltage at forward current 1.0A	Vf	1.3	V
Maximum DC Reverse Current Ta =25°C	lr .	10.0	μΑ
at rated DC blocking voltage Ta =125°C	"	500.0	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

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RATINGS AND CHARACTERISTIC CURVES RDB105S

Figure 1. Maximum Forward Current Derating Curve

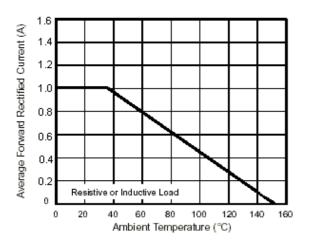


Figure 3. Typical Instantaneous Forward Characteristics Per Leg

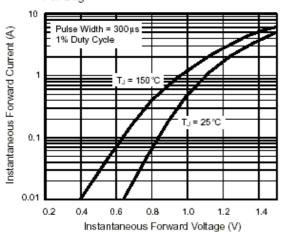


Figure 5. Typical Junction Capacitance Per Leg

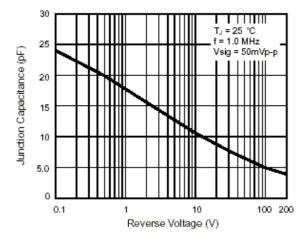


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current Per Leg

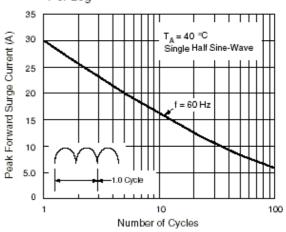
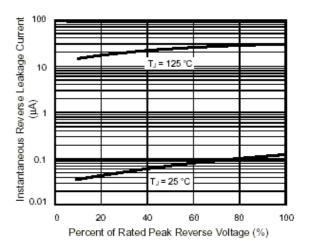


Figure 4. Typical Reverse Leakage Characteristics Per Leg



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