TRR®

DB201S~DB207S

Glass Passivated Bridge Rectifier

Features

- This series is UL Listed under the Recognized Component Index,file number E142814
- Ideal for printed circuit board application
- Surge overload rating to 50 amperes
- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- High temperature soldering guaranteed 260℃/5 seconds at 5 lbs(2.3kg) tension

DB-S

Pb

RoHS
COMPLIANT

Mechanical Date

- **Case:** Molded Plastic
- **Terminals:** Plated Leads Solderable per MIL-STD-202, Method 208
- **Polarity:** Marked on body
- **Mounting Position:** Any
- **Weight:**0.33 grams(approx)

Maximum Ratings & Thermal Characteristics (T = 25 °C unless otherwise noted)

Single Phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

Items	Symbol	DB 201S	DB 202S	DB 203S	DB 204S	DB 205S	DB 206S	DB 207S	UNIT
Peak Repetitive Reverse Voltage Maximun DC Blocking Voltage	V_{RRM} V_{DC}	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	560	700	V
Average Rectified Output Current @T_L=90℃	I_O	2.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load(JEDEC Method)	I_{FSM}	50							A
Typical thermal resistance per element	$R_{\theta JA}$	40							℃/ W
	$R_{\theta JL}$	15							
Operating junction temperature range	T_J	–55 to +150							℃
Storage temperature range	T_{STG}	–55 to +150							℃

Note:1.Units mounted on PCB with 0.51" x 0.51" (13 mm x 13 mm) copper pads

Electrical Characteristic (T_A = 25 °C unless otherwise noted)

Items	Test conditions		Symbol	Min	Type	Max	UNIT
Instantaneous forward voltage per leg	I_F=2.0A(2)		V_F	-	-	1.1	V
Reverse current	V_R=V_{DC}	T_A=25℃	I_R	-	-	5	μA
		T_A=125℃		-	-	500	

Note2: Pulse test:300μs pulse width,1% duty cycle.

Characteristic Curves (T_A = 25 °C unless otherwise noted)

Fig.1 Forward Current Derating Curve

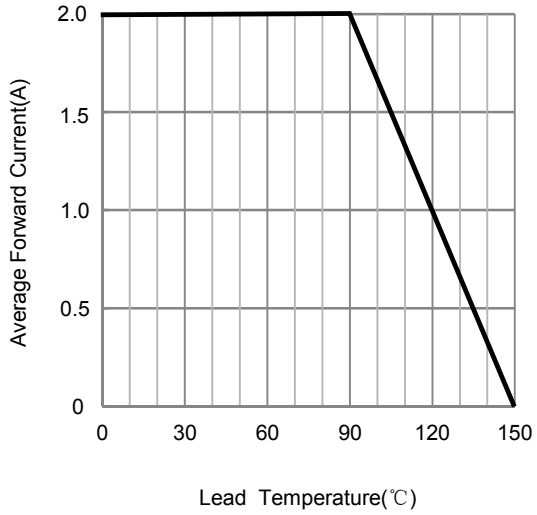


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

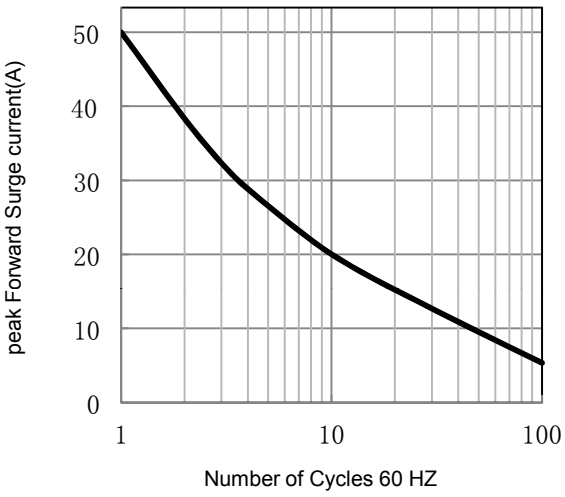


Fig.3 Typical Instantaneous Forward Characteristics

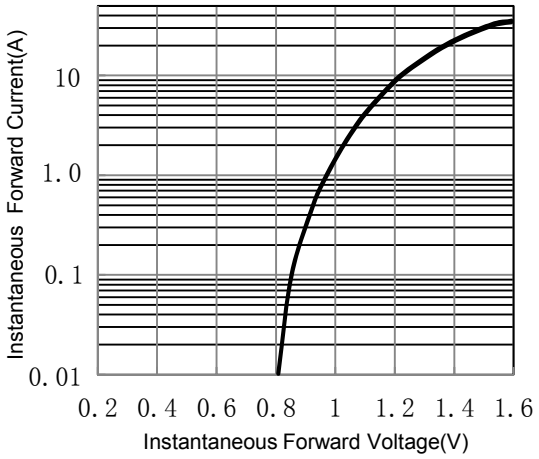
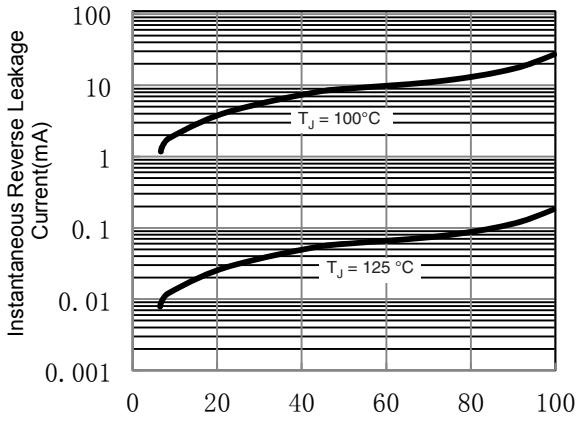
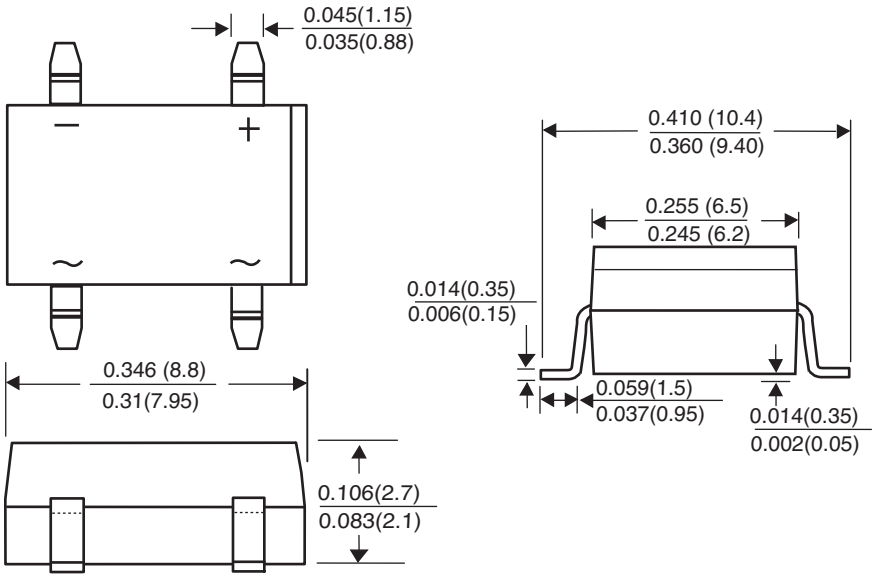


Fig.4 Typicl Reverse Leakage Characteristics

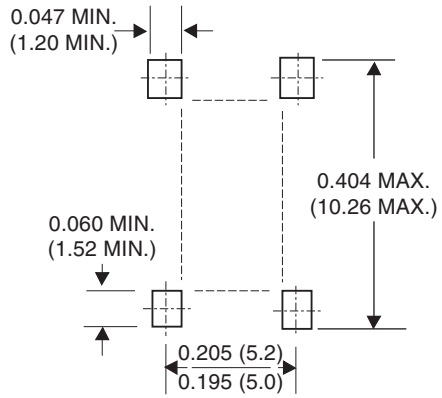


Package Outline

DB-S



Mounting Pad Layout



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