



Bridge Rectifiers

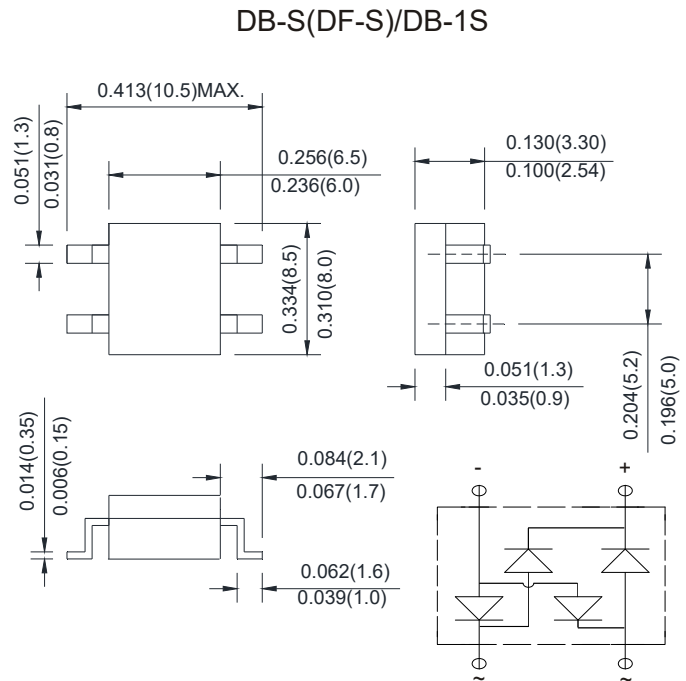
DB2005S THRU DB207S 50 to 1000 V 2.0 A

Typical Applications

General purpose use in AC/DC bridge full wave rectification for SMPS, lighting ballast, adapter, battery charger, home appliances, office equipment, and telecommunication applications.

Features And Mechanical Data

- Package:DF-S And DB-S or DB-1S
- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated Junction chip
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed 250 °C/10 seconds at terminals applications.
- Terminals: Tin plated leads, solderable per STD-002 and JESD22-B102
- Polarity: As marked on body



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase , half wave, 60HZ, resistive or inductive load. For capacitive load, derate current by 20%.

	Symbols	DB 2005S	DB 201S	DB 202S	DB 204S	DB 205S	DB 206S	DB 207S	Units
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current. Lead Length @Ta(Fig 1)	I(AV)	2.0							Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method) (Rating of per diode)	IFSM	60							Amp
Maximum Instantaneous Peak Forward Voltage @Drop Per Diode at I(AV)	VF	1.1							Volts
Maximum DC reverse current at rated DC blocking voltage per	IR	5 500							uAmp
Current squared time @1ms≤t≤8.3ms Tj=25 °C, Rating of per diode	I ² t	15							A ² S
Typical Thermal Resistance	RθJA	70							°C/W
Operating Temperature Range	TJ	-55 to +150							°C
Storage Temperature Range	TSTG	-55 to +150							°C

Note:

1. Unit mounted on 15 mm*15 mm*1.6 mm 1oz/ft2 glass epoxy PCB board, pad per pin with 2*2mm solder pad areas
2. Thermal resistance junction to case, lead and ambient in accordance with JESD-51.
3. The typical data above is for reference only.

※ This product The above data sheet typical data meet the Mentioned standards, designers for reference only



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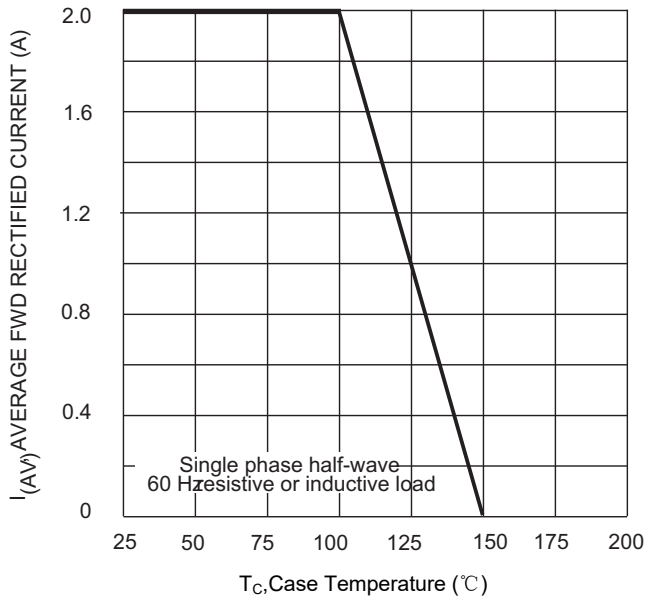


Fig. 1 Forward Derating Curve

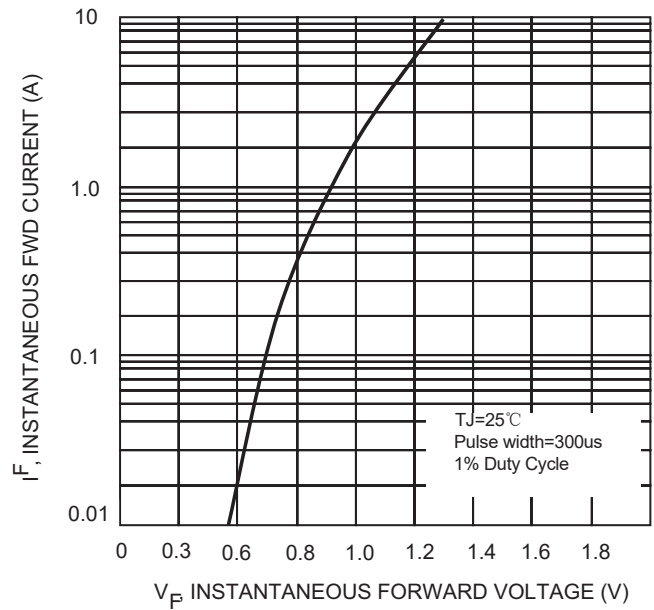


Fig. 2 Typical Forward Characteristics

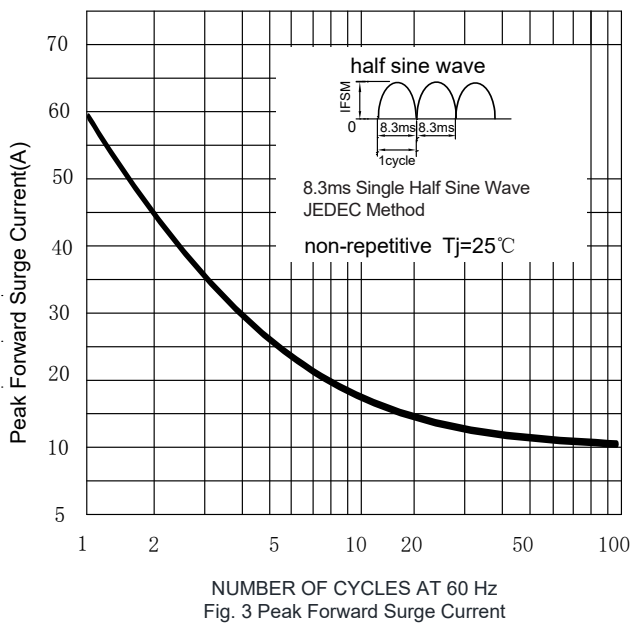


Fig. 3 Peak Forward Surge Current

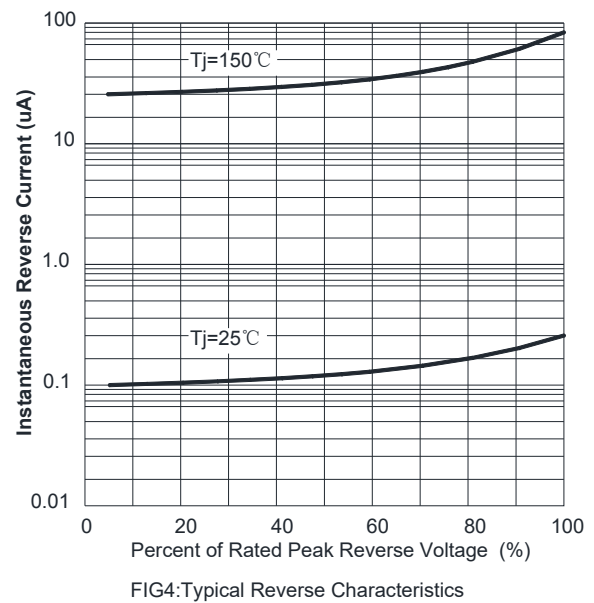


FIG4: Typical Reverse Characteristics