DB201 THRU DB207

Glass Passivated Bridge Rectifiers

Reverse Voltage - 50 to 1000 Volts Forward Current - 2.0 Amperes

Features

- Glass passivated chip
- High surge forward current capability
- Reliable low cost construction utilizing molded plastic technique
- Lead tin plated copper
- •Meet UL flammability classification 94V-0

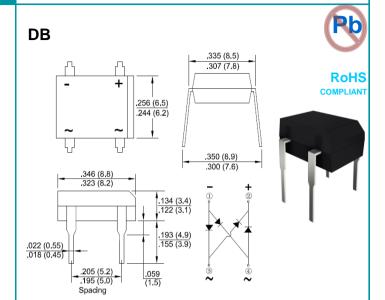
Mechanical Data

- Polarity: Symbol marked on body
- Mounting position: Any

Note: Products with logo or or are made by HY Electronic (Cayman) Limited.

Applications

 General purpose use in AC/DC bridge full wave rectification, for SMPS, lighting ballaster, adapter, etc.



Package Outline Dimensions in Inches (Millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25℃ ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Characteristics	Symbol	DB201	DB202	DB203	DB204	DB205	DB206	DB207	Unit
Maximum Repetitive Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @Ta=40 $^{\circ}\mathrm{C}$	I(AV)	2.0						Α	
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave,	IFSM	60							Α
Superimposed on Rated Load (JEDEC Method)	II SIVI	11 014							^
I ² t Rating for Fusing (t<8.3mS)	l ² t	14.9						A ² s	
Peak Forward Voltage per Diode at 2.0A DC	VF	1.1						V	
Maximum DC Reverse Current at Rated @Tj=25 $^{\circ}$ C	lr	10							μΑ
DC Blocking Voltage per Diode @TJ=125℃	IK	500							
Typical Junction Capacitance (Note1)	CJ	25						рF	
Typical Thermal Resistance Junction to Ambient (Note2)	Reja	40						°C/W	
Operating Junction Temperature Range	TJ	-55 to +150							$^{\circ}$
Storage Temperature Range	Тѕтс	-55 to +150							$^{\circ}$

Notes: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

- 2. Thermal resistance from junction to ambient mounted on P.C.B ,with 0.5*0.5"(13*13mm) copper pads.
- 3. The typical data above is for reference only .



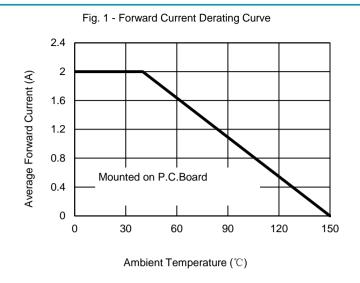


Fig. 3 - Typical Reverse Characteristics

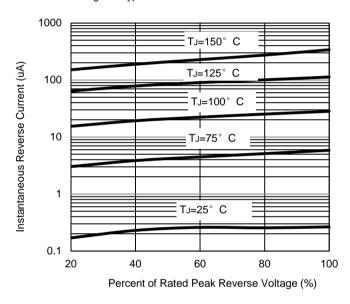


Fig. 2 - Maximum Non-Repetitive Surge Current

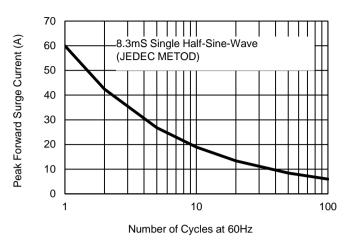


Fig. 4 - Typical Forward Characteristics

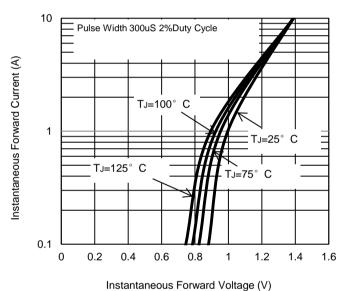
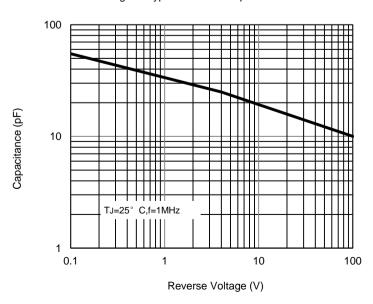


Fig. 5 - Typical Junction Capacitance



The curve above is for reference only.

DB20*-U/13-00/99-00/01 Rev. 11, 18-May-2020



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