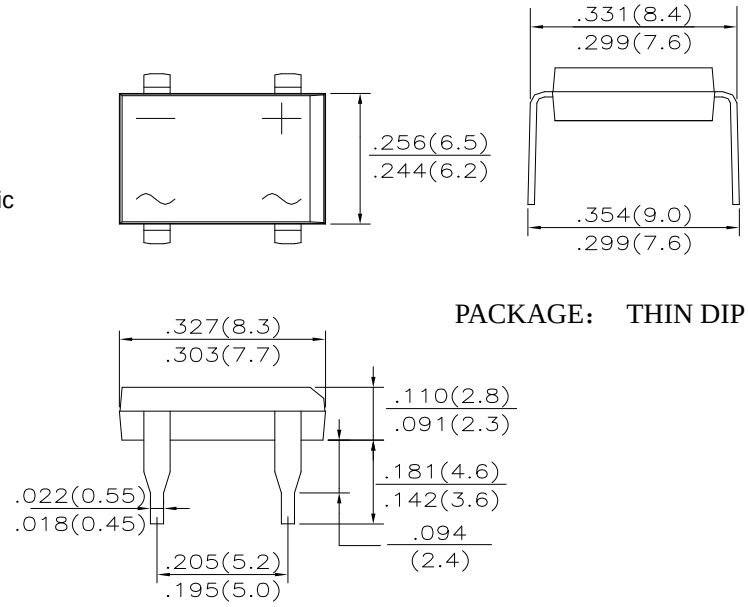
DB201 THRU DB207

2.0A SINGLE-PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

RECTIFIER REVERSE VOLTAGE 50 TO 1000V

FEATURES

- Rating to 1000V PRV
- Ideal for printed circuit board
- Low forward voltage drop,high current capability
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Lead tin Pb/Sn copper
- The plastic material has UL flammability classification 94V-0



PACKAGE： THIN DIP

Dimensions in inches and (millimeters)

MECHANICAL DATA

- Polarit: As marked on Body
- Weight: 0.02 ounces,0.38 gras
- Mounting position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temperature unless otherwise specified.

Characteristic	Symbol	DB 201	DB 202	DB 203	DB 204	DB 205	DB 206	DB 207	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Input Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Rectified Output Current @ T_A = 40℃	$I_{(AV)}$	2.0							A
Peak Forward Surge Current Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	50							A
Maximum Instantaneous Forward Voltage drop per Element at I_F = 1.0A	V_F	1.1							V
Maximum Reverse DC Current at Rated @ T_A =25℃	I_R	10							uA
DC Blocking Voltage per Element @ T_A = 100℃		1.0							mA
Typical Thermal Resistance (Note 1)	R_{qJA}	40							K/W
Storage and Operating Temperature Range	T_J,T_{STG}	-55 to +150							℃

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

For capacitive load, derate current by 20%

Notes: 1. Thermal resistance from junction to ambient mounted on PC board with 13mm x 13mm copper pads.

2. 60 Hz resistive or inductive load.

3. For capacitive load, derate current by 20%.

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FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

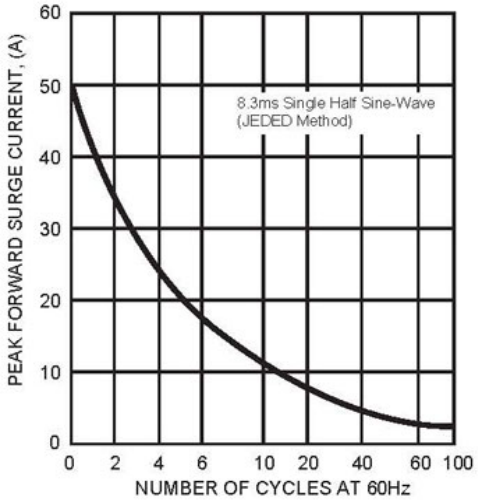

FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

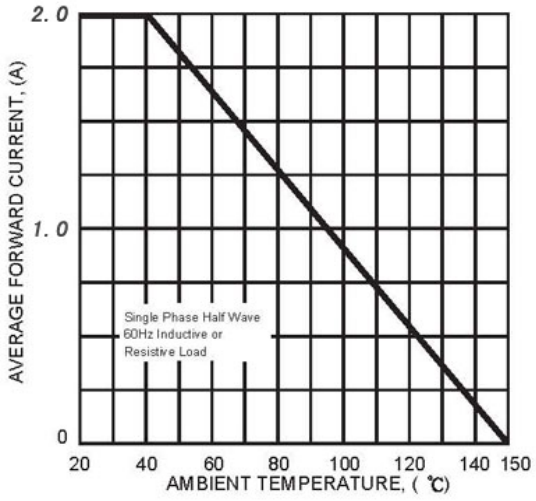

FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

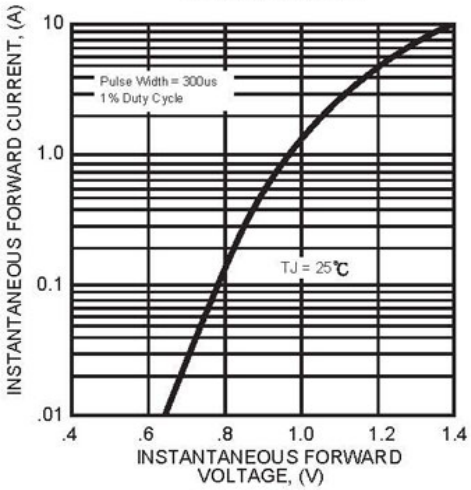

FIG. 4 - TYPICAL REVERSE CHARACTERISTICS