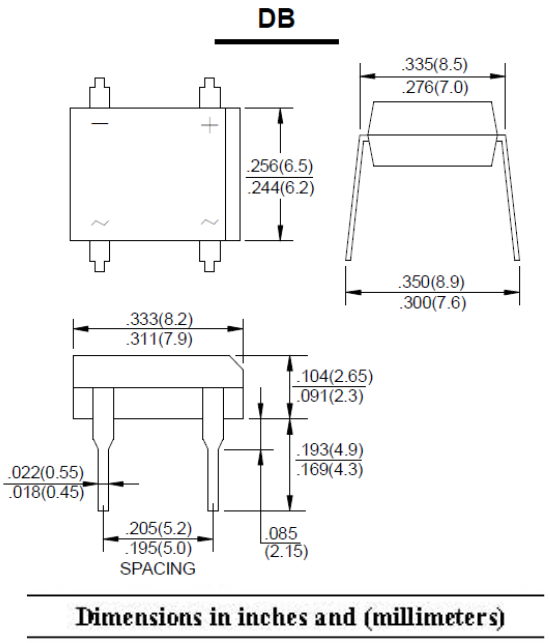
DB201 THRU DB207

Silicon Bridge Rectifiers

Reverse Voltage - 50 to 1000 V
Forward Current - 3 A



Dimensions in inches and (millimeters)

Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Ideal for printed circuit boards
- Low reverse leakage
- High forward surge current capability

Mechanical Data

- **Case:** Molded plastic body
- **Terminals:** Plated leads solderable per MIL-STD-750, Method 2026
- Mounting position: Any

Absolute Maximum Ratings and Characteristics

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

Parameter	Symbols	DB201	DB202	DB203	DB204	DB205	DB206	DB207	Units
	Marking	DB201	DB202	DB203	DB204	DB205	DB206	DB207	-
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS 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 Forward Rectified Current T_A = 40℃ [1]	$I_{F(AV)}$	3							A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	70							A
Rating for Fusing (t < 8.3 ms)	I^2t	10							A^2S
Maximum Forward Voltage at 1 A	V_F	1.1							V
Maximum Reverse Current at Rated DC Blocking Voltage T_A = 25℃ T_A = 100℃	I_R	10 0.5							μA mA
Typical Junction Capacitance at V_R = 4 V, f = 1 MHz	C_J	25							pF
Typical Thermal Resistance [1]	$R_{\theta JA}$	40							℃/W
Operating Junction and Storage Temperature Range	T_j, T_{stg}	- 65 to + 150							℃

[1] Unit mounted on P.C. board with 0.51″ x 0.51″(13 x 13 mm) copper pads.

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FIG.1-DERATING CURVE FOR
OUTPUT RECTIFIED CURRENT

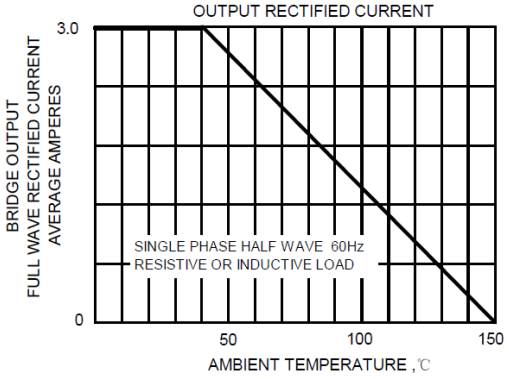

FIG.2-MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT

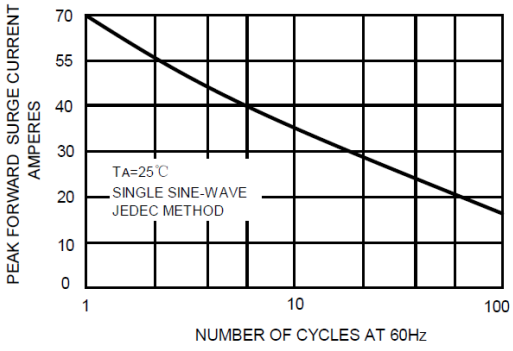

FIG.3-TYPICAL JUNCTION CAPACITANCE

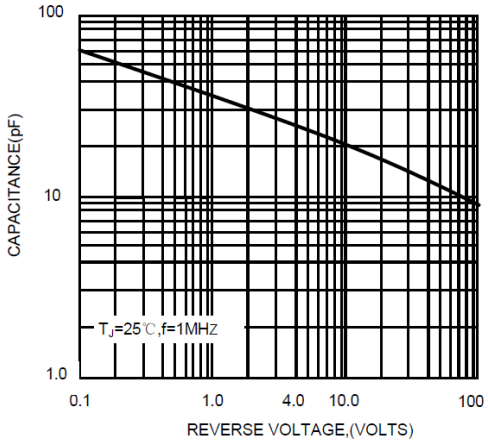

FIG.4-TYPICAL FORWARD CHARACTERISTICS

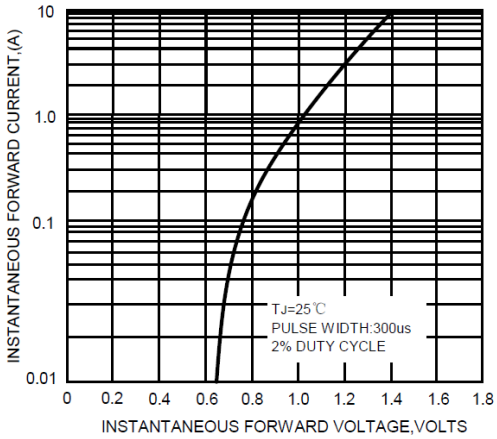

FIG.5-TYPICAL REVERSE CHARACTERISTICS