

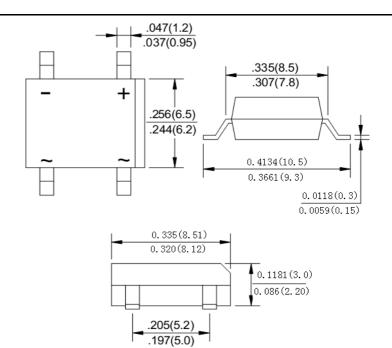
SURFACE MOUNT BRIDGE RECTIFIERS

Features

- Glass Passivated Die Construction
- · Low leakage
- Ideal for printed circuit board
- Surge overload rating-30A peak
- Designed for Surface Mount Application
- Plastic Material-UL Flammability 94V-0

Mechanical Data

- Case:Reliable low cost construction utilizing molded plastic technique
- Terminals:Plated Leads Solderable per MIL-STD-202, Method208
- Polarity: As Marked on Case
- Mounting Position:Any
- Marking: Type Number



Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

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

Parameter	Symbol	DB101S	DB102S	DB103S	DB104S	DB105S	DB106S	DB107S	UNIT
Maximum repetitive 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 output rectified current @TA=40°C	I (AV)	1							A
Peak forward surge current 8.3ms single sine-wave superimposed on rated load(JEDEC Method)	IFSM	30							A
Maximum instantaneous forward voltage drop per diode @1.0A	VF	1. 1							V
Maximum DC reverse current at TA=25℃ rated DC blocking voltage per leg TA=125℃	IR	5. 0 500							uA
Typical thermal resistance per leg (Notel)	RθJA	40							°C/W
	RθJL	15							
Operating junction temperature range	TJ	-55 to +150							$^{\circ}\!\mathbb{C}$
storage temperature range	Tstg	-55 to +150							$^{\circ}$

Note:

- 1. Mounted on glass epoxy PC board with 1.3mm² solder pad.
- 2. Mounted on aluminum substrate PC board with 1.3mm² solder pad.
- 3. Measured at 1. OMHz and applied reverse of 4. OV D. C.





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

