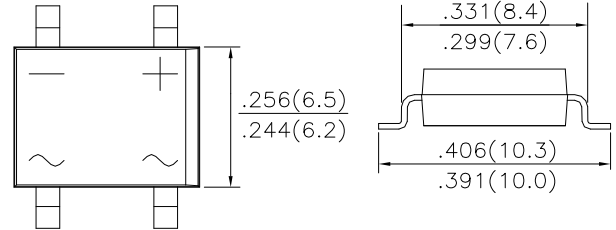


DB201S-DB207S

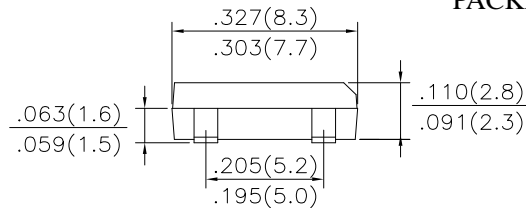
SURFACE MOUNT BRIDGE RECTIFIERS

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



MECHANICAL DATA

- Polarity: As marked on Body
- Weight: 0.02 ounces, 0.38 grams
- Mounting position: Any

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Characteristic	Symbol	DB	DB	DB	DB	DB	DB	DB	Unit
		201S	202S	203S	204S	205S	206S	207S	
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°C	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°C	I _R	10							uA
DC Blocking Voltage per Element @ T _A = 100°C		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							°C

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%.

DB201S-DB207S

SURFACE MOUNT BRIDGE RECTIFIERS

Characteristic Curves ($T_A=25\text{ }^\circ\text{C}$ unless otherwise noted)

FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

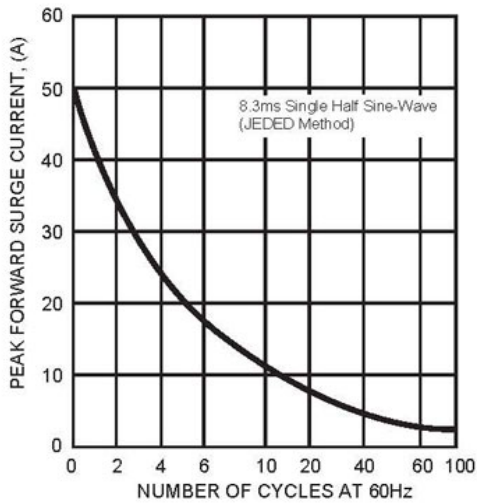


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

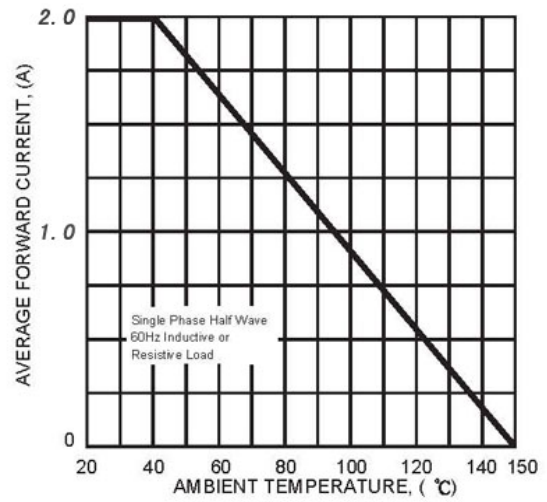


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

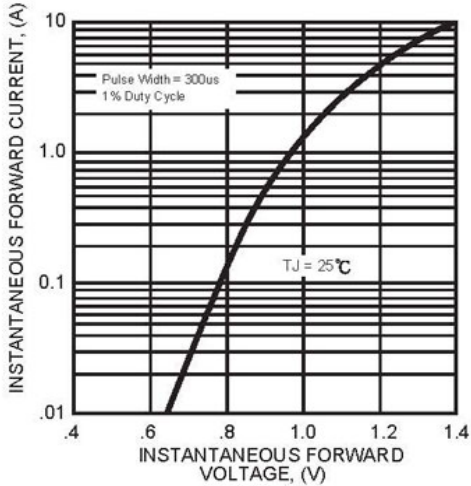
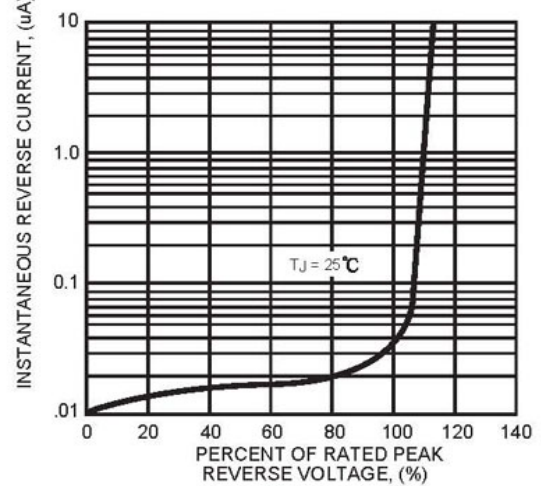


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS



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