

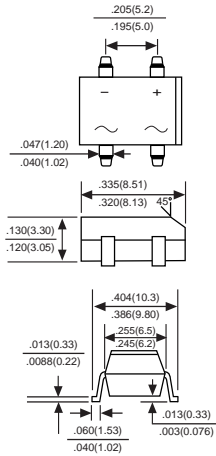


# DB201S THRU DB207S

## SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

Voltage Range - 50 to 1000 Volts Current - 2.0 Ampere

### DBS



Dimensions in inches and (millimeters)

### FEATURES

- ◆ Ideal for printed circuit board
- ◆ Reliable low cost construction utilizing molded plastic technique
- ◆ High temperature soldering guaranteed:
- ◆ 250\*/10 seconds / 0.375"(9.5mm) lead length at 5 lbs., (2.3kg)tension
- ◆ Small size, simple installation
- Leads solderable per MIL-STD-202, Method 208
- ◆ High surge current capability

### MECHANICAL DATA

**Case:** Molded plastic body

**Terminals:** Plated leads solderable per MIL-STD-750, Method 2026

**Polarity:** Polarity symbols marked on case

**Mounting Position:** Any

**Weight:** 0.02 ounce, 0.4 grams

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25\* ambient temperature unless otherwise specified.

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

MDD Catalog Number	SYMBOLS	MDD DB201S	MDD DB202S	MDD DB203S	MDD DB204S	MDD DB205S	MDD DB206S	MDD DB207S	UNITS
Maximum repetitive peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	$V_{RMS}$	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	$V_{DC}$	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current at $T_A=40j\text{ }^{\circ}\text{C}$	$I_{F(AV)}$	2.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	60							Amps
Maximum instantaneous forward voltage drop per bridge element at 2.0A	$V_F$	1.1							Volts
Maximum DC reverse current at rated DC blocking voltage $T_A=25j\text{ }^{\circ}\text{C}$ $T_A=125j\text{ }^{\circ}\text{C}$	$I_R$	10 500							$\mu\text{A}$ $\mu\text{A}$
Operating temperature range	$T_J$	-55 to +150							$^{\circ}\text{C}$
storage temperature range	$T_{STG}$	-55 to +150							$^{\circ}\text{C}$

NOTES: DBS for surface mount package.



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# RATINGS AND CHARACTERISTIC CURVES DB201S THRU DB207S

FIG. 1- MAXIMUM DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

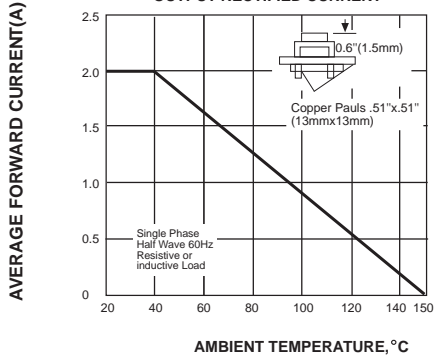


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

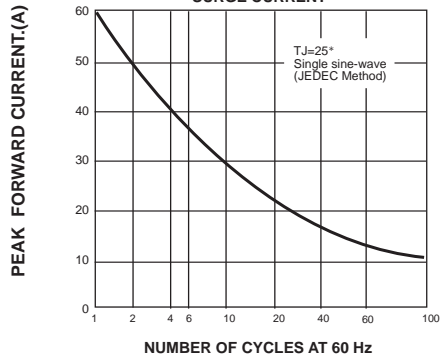


FIG. 3-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

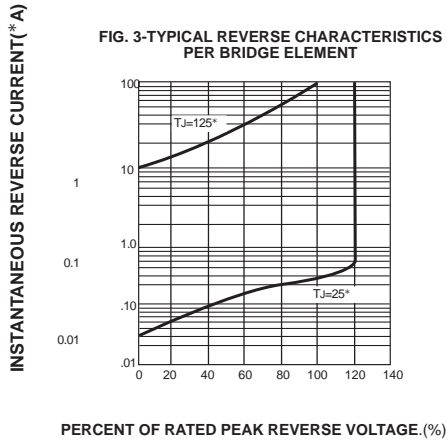


FIG. 4-TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

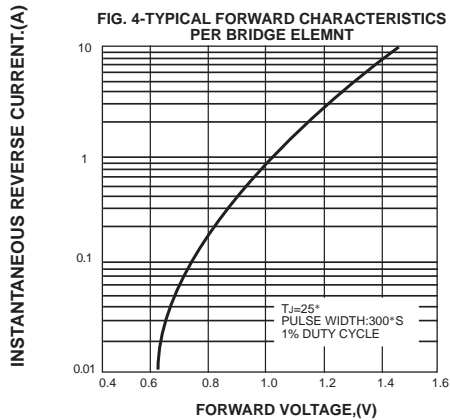
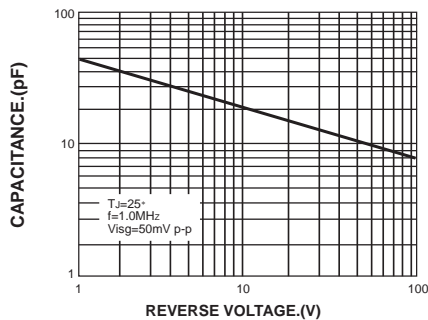


FIG. 3-TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT



The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考!)



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