

## DB201 THRU DB207

### SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER

VOLTAGE: 50 to 1000V

CURRENT: 2.0A

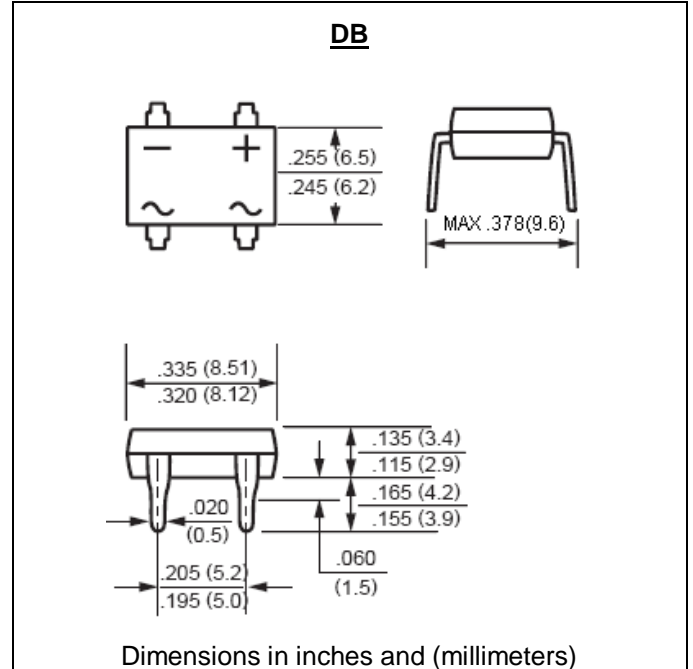


#### FEATURE

Glass passivated junction  
Ideal for printed circuit board  
Reliable low cost construction utilizing molded plastic technique  
Surge overload rating: 50 A peak

#### MECHANICAL DATA

Terminal: Plated leads solderable per J-STD-002  
Case: UL-94 Class V-0 recognized Flame Retardant Epoxy  
Polarity: Polarity symbol marked on body  
Mounting position: any



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

	SYMBOL	DB 201	DB 202	DB 203	DB 204	DB 205	DB 206	DB 207	units
Maximum Recurrent Peak Reverse Voltage	V <sub>rrm</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>rms</sub>	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	V <sub>dc</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at Ta =40°C	I <sub>f(av)</sub>	2.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I <sub>fsm</sub>	50.0							A
Maximum Instantaneous Forward Voltage at forward current 2.0A	V <sub>f</sub>	1.1							V
Maximum DC Reverse Current at rated DC blocking voltage Ta =25°C	I <sub>r</sub>	10.0							μA
		500.0							
Typical Thermal Resistance (Note1)	R <sub>th(ja)</sub> R <sub>th(jl)</sub>	40 15							°C/W
Typical Junction Capacitance (Note2)	C <sub>j</sub>	25.0							pF
Storage and Operation Junction Temperature	T <sub>stg</sub> , T <sub>j</sub>	-55 to +150							°C

Note:

- Thermal resistance from Junction to Ambient and from Junction to Lead mounted on P.C.B. with 0.51 × 0.51" (13 × 13mm) copper pads
- Measured at 1.0 MHz and applied voltage of 4.0 volt

RATINGS AND CHARACTERISTIC CURVES DB201 THRU DB207

FIG.1- MAXIMUM DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

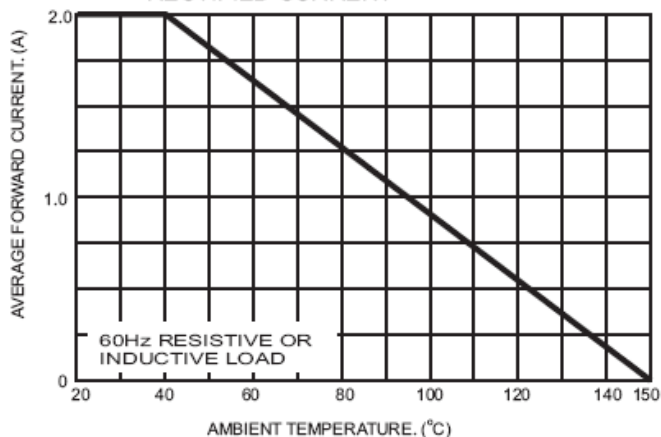


FIG.2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER BRIDGE ELEMENT

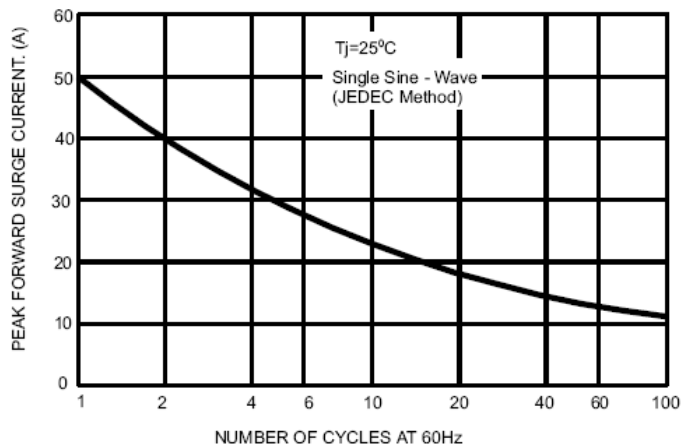


FIG.3- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

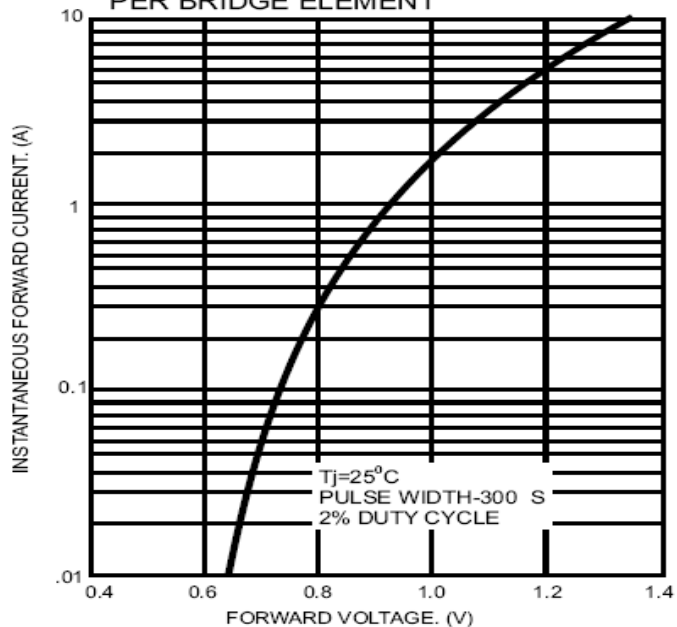


FIG.4- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

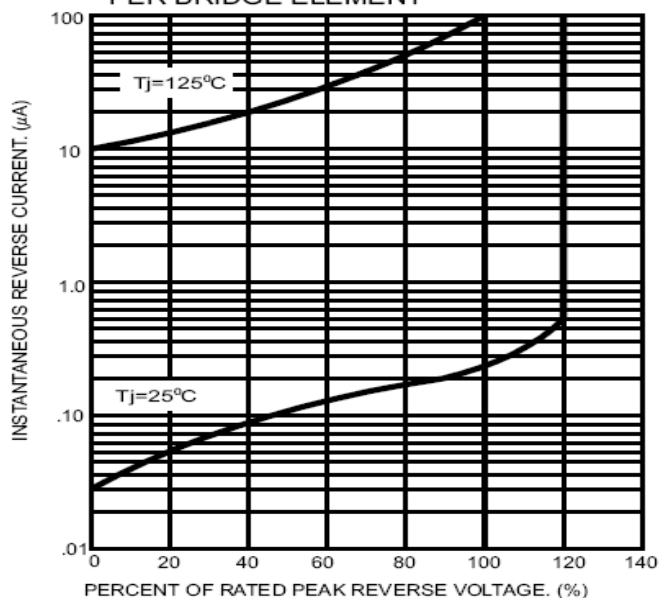


FIG.5- TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT

