

## DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

DB151 THRU DB157

# TECHNICAL SPECIFICATIONS OF SINGLE-PHASE SILICON BRIDGE RECTIFIER VOLTAGE RANGE - 50 to 1000 Volts CURRENT - 1.5 Ampere

#### **FEATURES**

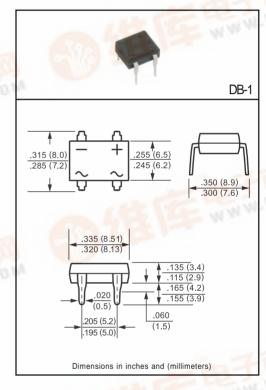
- \* Good for automation insertion
- \* Surge overload rating 50 Amperes peak
- \* Ideal for printed circuit board
- \* Reliable low cost construction
- \* Glass passivated junction

#### MECHANICAL DATA

- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Lead: MIL-STD-202E, Method 208 guaranteed
- \* Polarity: Symbols molded or marked on body
- \* Mounting position: Any
- \* Weight: 0.4 gram

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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



		SYMBOL	DB151	DB152	DB153	DB154	DB155	DB156	DB157	UNITS
Maximum Recurrent Peak Reverse Voltage		VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Bridge Input Voltage		VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Output Current at TA = 40°C		lo	1.5							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	60						Amps	
Maximum Forward Voltage Drop per element at 1.0A DC		VF	1.1						Volts	
Maximum DC Reverse Current at Rated	@Ta = 25°C	IR	10							uAmps
DC Blocking Voltage per element	@Ta = 125°C		500							
I <sup>2</sup> t Rating for Fusing (t<8.3ms)		l <sup>2</sup> t	10						A <sup>2</sup> Sec	
ypical Junction Capacitance ( Note1)		CJ	25							pF
Typical Thermal Resistance (Note 2)		RθJA	40							°C/W
Perating and Storage Temperature Range		TJ,TSTG	-65 to + 150							°C

NOTES 1. Measured at 1 MHz and applied reverse voltage of 4.0 volts

### RATING AND CHARACTERISTIC CURVES (DB151 THRU DB157)

