

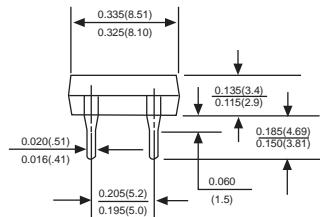
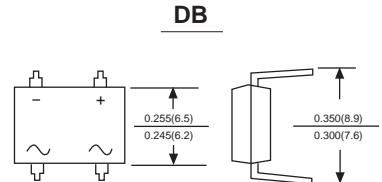
SILICON BRIDGE RECTIFIERS

DF005 THRU DF10 AND DB101THRU DB107

VOLTAGE RANGE 50 to 1000 Volts
CURRENT 1.0 Ampere

FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Ideal for printed circuit boards
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed: 260°C/10 seconds, 5 lbs. (2.3kg) tension



Dimensions in inches and (millimeters)

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

	SYMBOLS	DF005 DB101	DF01 DB102	DF02 DB103	DF04 DB104	DF06 DB105	DF08 DB106	DF10 DB107	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 output rectified current 0.06"(1.5mm) lead length at TA=40°C (Note 2)	I _(AV)	1.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	50.0							Amps
Rating for Fusing(t<8.3ms)	I ² t	10							A ² s
Maximum instantaneous forward voltage drop per bridge element at 1.0A	V _F	1.1							Volts
Maximum DC reverse current TA=25°C at rated DC blocking voltage TA=100°C	I _R	10							µA
		0.5							mA
Typical Junction Capacitance (Note 1)	C _J	25							pF
Typical Thermal Resistance (Note 2)	R _{θJA}	40							°C/W
Operating junction temperature range	T _J	-65 to +150							°C
storage temperature range	T _{STG}	-65 to +150							°C

NOTES:

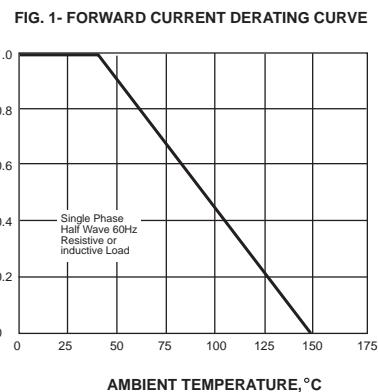
- Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts.
- Unit mounted on P.C. board with 0.51" x 0.51" (13x13mm) copper pads.

SILICON BRIDGE RECTIFIERS

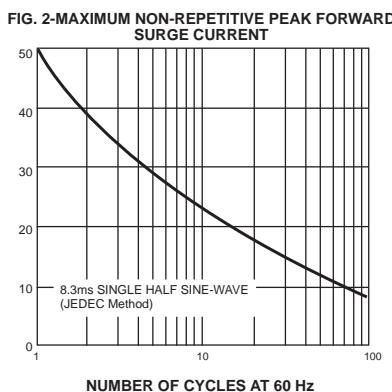
DF005 THRU DF10 AND DB101 THRU DB107

VOLTAGE RANGE	50 to 1000 Volts
CURRENT	1.0 Ampere

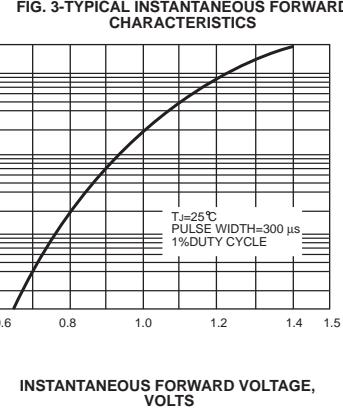
AVERAGE FORWARD RECTIFIED CURRENT,
AMPERES



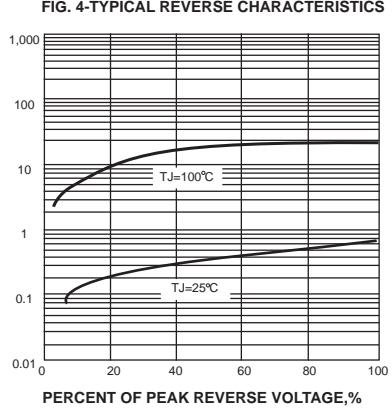
PEAK FORWARD SURGE CURRENT,
AMPERES



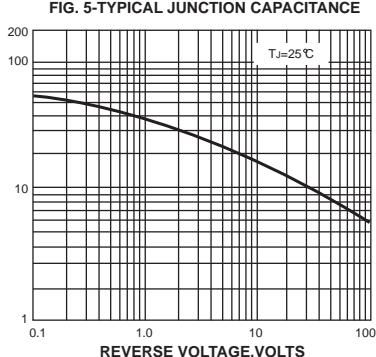
INSTANTANEOUS FORWARD
CURRENT, AMPERES



INSTANTANEOUS REVERSE CURRENT,
MICROAMPERES



JUNCTION CAPACITANCE, pF



TRANSIENT THERMAL IMPEDANCE,
°C/W

