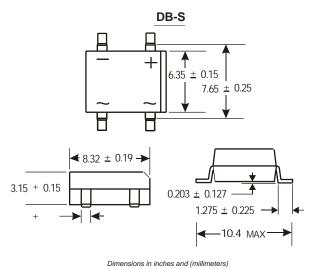
DF1505S THRU DF1510S AND DB151S THRU DB157S

SILICON BRIDGE RECTIFIERS

Reverse Voltage - 50 to 1000 Volts Forward Current - 1.5 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

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: 0.04 ounce, 1.0 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	DF1505S DB151S	DF1501S DB152S	DF1502S DB153S	DF1504S DB154S	DF1506S DB155S	DF1508S DB156S	DF1510S DB157S	UNITS
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	VOLTS
Maximum RMS 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 rectified current	1				•	•		A	
0.06"(1.5mm) lead lenth at Ta=40°C (Note 2)	l(AV) 1.5							Amps	
Peak forward surge current									
8.3ms single half sine-wave superimposed on	Ifsm 50.0							Amps	
rated load (JEDEC Method)									
Rating for Fusing(t<8.3ms)	l ² t	10						A ² s	
Maximum instantaneous forward voltage drop	.,	1.1							Volts
per birdge element at 1.5A	VF								
Maximum DC reverse current Ta=25°C		10							μΑ
at rated DC blocking voltage Ta=100°C	l _R	0.5							mA
Typical Junction Capacitance (Note 1)	Сл	25							pF
Typical Thermal Resistance (Note 2)	Rqja	40						°C/W	
Operating junction temperature range	TJ	-65 to +150						°C	
storage temperature range	Тѕтс	-65 to +150							°C

NOTES:

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



Output Rectified Current 2.0 60Hz Resistive of Inductive Load Average Forward Output 1.5 Current, Amperes 1.0 0.5 0 40 60 80 100 120 140 Case Temperature,°C

Fig. 1 Derating Curve for

Fig. 3 Typical Instantaneous Forward Characteristics

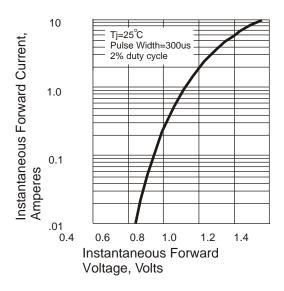


Fig. 2 Maximum Non-repetitive Peak Forward Surge Current

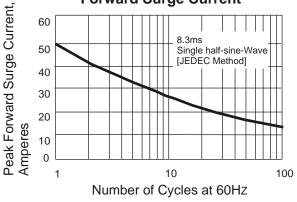


Fig. 4 Typical Revers Characteristics

