

VI. Bridge Rectifier

1.0A SMD Glass Passivated Bridge Rectifier (Low Profile Type)
DF005SL~DF10SL (Package: DFS)

FEATURES

- · Glass passivated die construction
- Reliable low cost construction utilizing molded plastic technique
- · High surge current capability
- Small size, simple installation
- Plastic material UL Recognition Flammability Classification 94V-0

MECHANICAL DATA

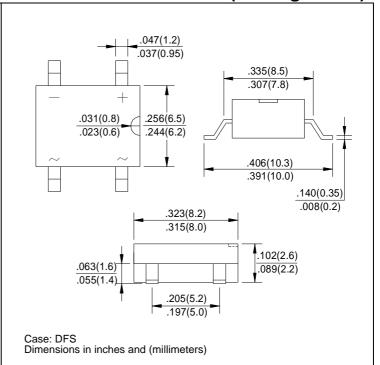
· Case: Molded plastic

· Terminals : Plated terminals

· Polarity: Polarity symbols marked on body

Mounting position : AnyHandling precaution : None

• Weight: 0.38 grams



Ratings & Electrical Characteristics

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

Characteristics	Symbol	DF 005SL	DF 01SL	DF 02SL	DF 04SL	DF 06SL	DF 08SL	DF 10SL	Units
Maximum recurrent 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 Ta = 40	lo	1.0							Amps
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load, (JEDEC Method)	I _{FSM}	30.0							Amps
Maximum instantaneous forward voltage drop per element at 1.0A	V _F	1.1						Volts	
Maximum DC reverse current Tj= 25 at rated DC blocking voltage Tj= 125	I _R	10 500							μΑ
I ² t Rating for Fusing (t<8.3ms)	I ² t	10.4							A^2s
Typical junction capacitance per element (Note 1)	Cj	25							PF
Typical thermal resistance (Note 2)	Rth-JA	40							/ W
Operating junction and storage temperature range	Tj, Tstg	-55 to +150							

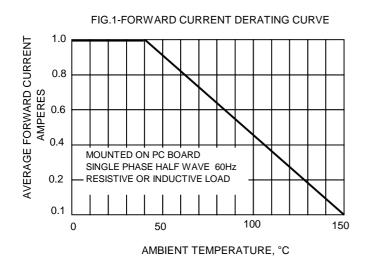
Notes:

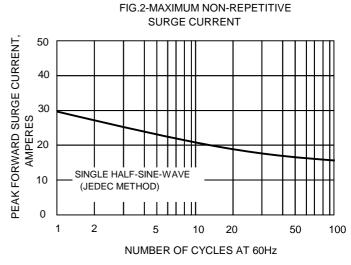
^{1.} Measured at 1.0 MHz and applied reverse voltage of 4.0 volts D.C.

^{2.} Thermal resistance junction to ambient mounted on PC Board with 13.0 x 13.0 mm copper pads.

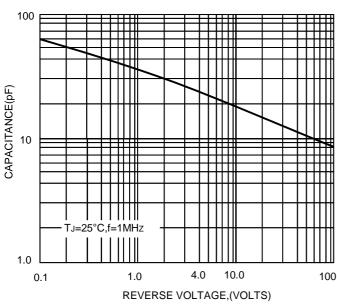


Ratings and Characteristic Curves of DF005SL~DF10SL











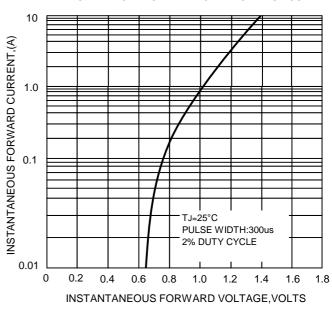


FIG.5-TYPICAL REVERSE CHARACTERISTICS

