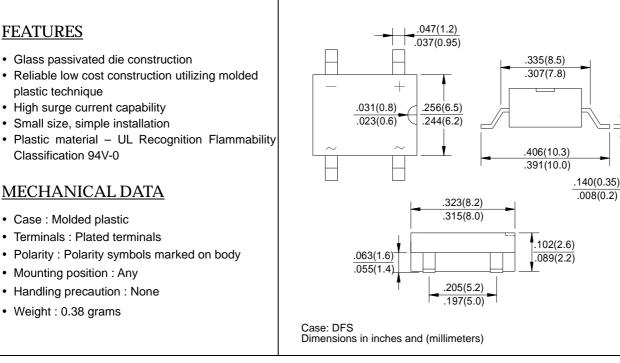
## VI. <u>Bridge Rectifier</u>

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



## **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 <sub>RRM</sub>	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V <sub>DC</sub>	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 <sub>FSM</sub>	30.0							Amps
Maximum instantaneous forward voltage drop per element at 1.0A	V <sub>F</sub>	1.1							Volts
Maximum DC reverse current Tj= 25 at rated DC blocking voltage Tj= 125	I <sub>R</sub>	10 500							μΑ
I <sup>2</sup> t Rating for Fusing (t<8.3ms)	l <sup>2</sup> t	10.4							A <sup>2</sup> s
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							

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

