VI. <u>Bridge Rectifier</u>

2.0A SMD Glass Passivated Bridge Rectifier (Low Profile Type) DF2005SL~DF210SL (Package: DFS)

.047(1.2) **FEATURES** .037(0.95) · Glass passivated die construction .335(8.5) .307(7.8) Reliable low cost construction utilizing molded + plastic technique · High surge current capability .031(0.8) .256(6.5) .023(0.6) .244(6.2) · Small size, simple installation Plastic material – UL Recognition Flammability .406(10.3) Classification 94V-0 .391(10.0) MECHANICAL DATA .323(8.2) .315(8.0) · Case : Molded plastic · Terminals : Plated terminals .102(2.6) · Polarity : Polarity symbols marked on body .063(1.6) .089(2.2) .055(1.4) · Mounting position : Any .205(5.2) · Handling precaution : None .197(5.0) · Weight : 0.38 grams Case: DFS

.140(0.35)

.008(0.2)

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 2005SL	DF 201SL	DF 202SL	DF 204SL	DF 206SL	DF 208SL	DF 210SL	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	2.0							Amps
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load, (JEDEC Method)	I _{FSM}	60.0							Amps
Maximum instantaneous forward voltage drop per element at 2.0A	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)	l ² t	10.4						A ² 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							

Dimensions in inches and (millimeters)

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.



