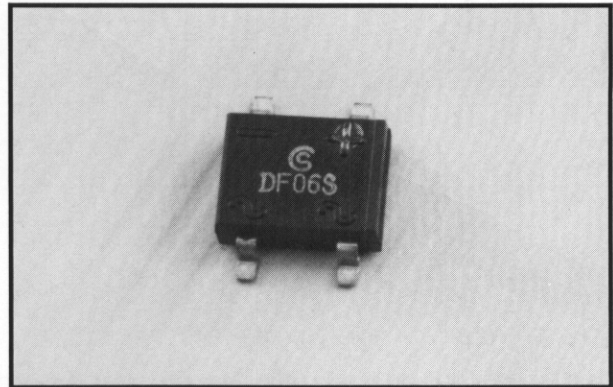


# DF005S Thru DF10S



## 1 AMP SURFACE MOUNT GLASS PASSIVATED SILICON BRIDGE



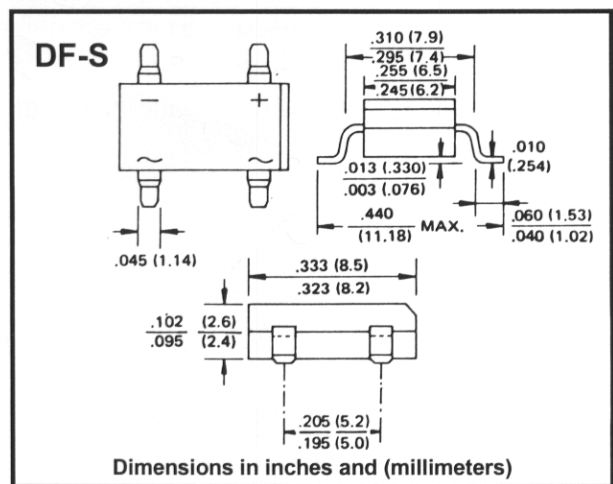
### FEATURES

- Rating to 1000V PRV
- Surge overload rating to 45 Amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- UL recognized: File #E106441
- UL recognized 94V-O plastic material

### Mechanical Data

- Case: Molded plastic
- Leads: Tin plated copper
- Leads solderable per MIL-STD-202, Method 208
- Polarity: Symbols molded on body
- Weight: 0.02 ounce, 0.38 grams

### Outline Drawing



### Maximum Ratings & Characteristics

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

		DF005S	DF01S	DF02S	DF04S	DF06S	DF08S	DF10S	Units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward Output Current @ $T_A = 40^\circ C$	$I_{(AV)}$	1.0							A
Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave Superimposed On Rated Load	$I_{FSM}$	50							A
Maximum DC Forward Voltage AT 1.0A DC	$V_F$	1.1							V
Maximum DC Reverse Current @ $T_A = 25^\circ C$ At Rated DC Blocking Voltage @ $T_A = 125^\circ C$	$I_R$	10 500							$\mu A$
$I^2 t$ Rating for Fusing ( $t < 8.3ms$ )	$I^2 t$	10.4							$A^2 S$
Typical Thermal Resistance per Element	$C_J$	25							pF
Typical Thermal Resistance	$R_{THJC}$	40							$^\circ C/W$
Operating Temperature Range	$T_J$	-55 to +125							$^\circ C$
Storage Temperature Range	$T_{STG}$	-55 to +150							$^\circ C$