



DF005S thru DF10S

1 AMP
SURFACE MOUNT GLASS PASSIVATED
SILICON BRIDGE RECTIFIERS

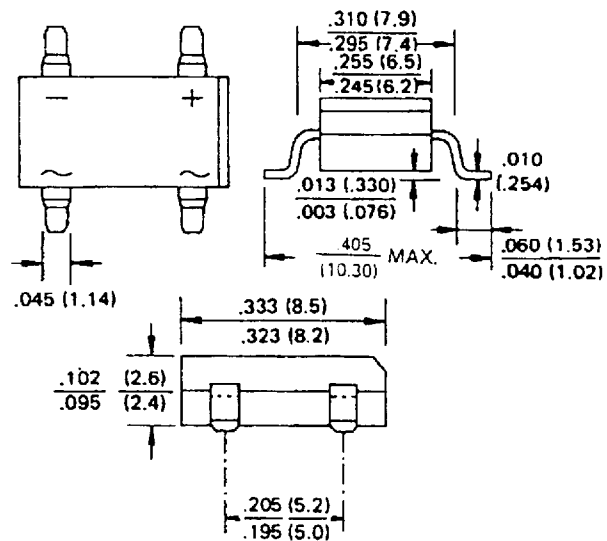


VOLTAGE RANGE
 50 to 1000 Volts
CURRENT
 1.0 Ampere

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
- Lead solderable per MIL-STD-202 method 208
- Leads: Tin plated copper
- Plastic material has UL flammability classification 94V-0
- Polarity symbols molded on body
- Weight: 0.02 ounce 0.38 grams
- UL Recognized file # E95060

DF-S



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL 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%.

		DF 005S	DF 01S	DF 02S	DF 04S	DF 06S	DF 08S	DF 10S	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 Rectified 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 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							μA μA
$I^2 t$ 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	$R_{\theta JC}$	40							°C/W
Operating Temperature Range	T_J	-55 to +150							°C
Storage Temperature Range	T_{STG}	-55 to +150							°C

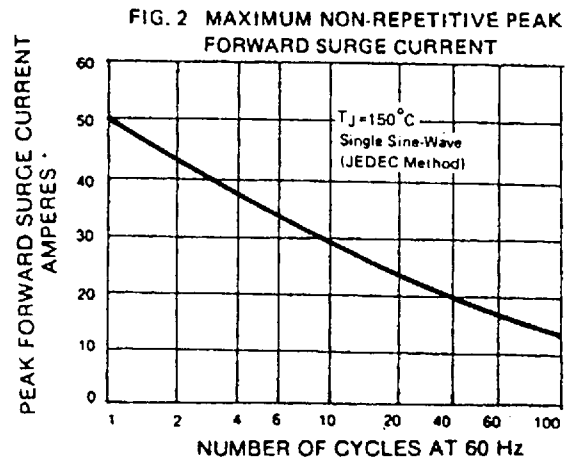
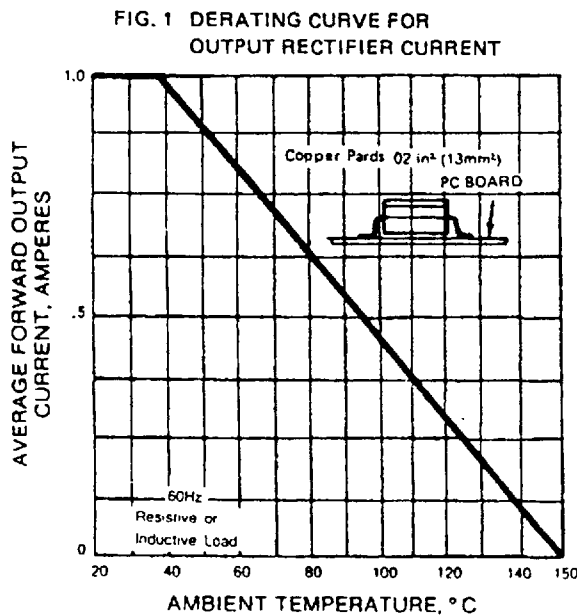
USA
 405 S.W. Columbia Street
 EUROPE

Avenue J.F. Kennedy Bât B4 Parc Cadéra Nord F-33700 Merignac - France

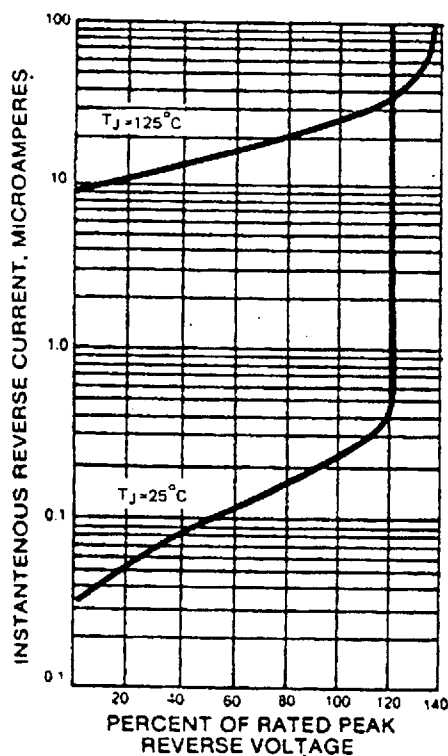
Bend, Oregon 97702-1035

Phone: (541) 382-8028 FAX: (541) 388-0364

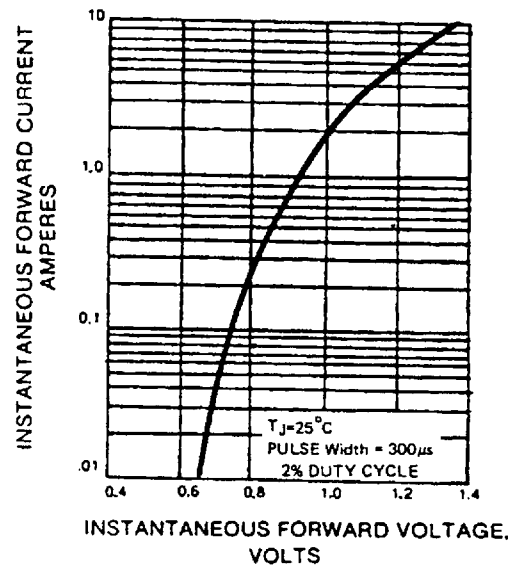
Phone: (33) 5 57 92 15 15 FAX: (33) 5 56 47 97 61



**FIG. 3 TYPICAL REVERSE CHARACTERISTICS
PER BRIDGE ELEMENT**



**FIG. 4 TYPICAL FORWARD CHARACTERISTICS
PER BRIDGE ELEMENT**



**FIG. 5 TYPICAL JUNCTION CAPACITANCE
PER BRIDGE ELEMENT**

