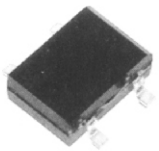
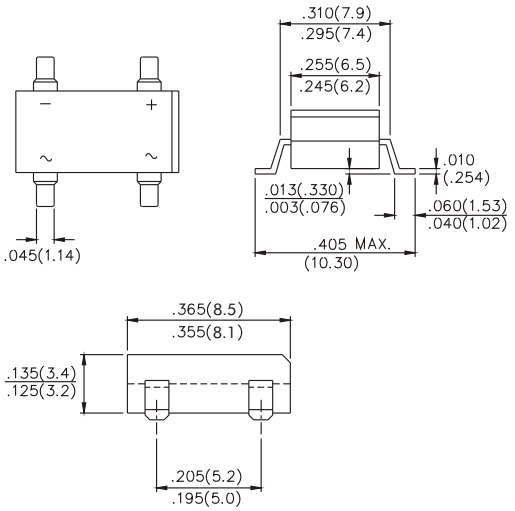
DF005S thru DF10S SERIES

SINGLE-PHASE GLASS BRIDGE

CHENG-YI
ELECTRONIC



VOLTAGE RANGE
50 TO 1000 VOLTS
CURRENT
1.0 Amperes



Dimensions in inches and (millimeters)

FEATURES

- Surge overload rating-50 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Polariy symbols molded on body
- Mounting Position: Any
- Glass passivated junctions

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%.

		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 Bridge Input 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°C	$V_{(AV)}$	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 ADC	V_F	1.1							V
Maximum DC Reverse Current @ T_A=25°C	I_R	10							μA
at rated DC Blocking Voltage @ T_A=100°C		500							μA
I^2t Rating for fusing (t<8.3ms)	I^2t	10.4							A^2S
Typical Junction Capacitance per element	C_J	25							pF
Typical Thermal Resistance	$R\theta JC$	40							°C/W
Operating Temperature Range	T_J	-55 to +125							°C
Storage Temperature Range	T_{STG}	-55 to +150							°C

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RATING AND CHARACTERISTICS CURVES
DF005S THRU DF10S

Fig.1 - MAXIMUM FORWARD SURGE CURRENT

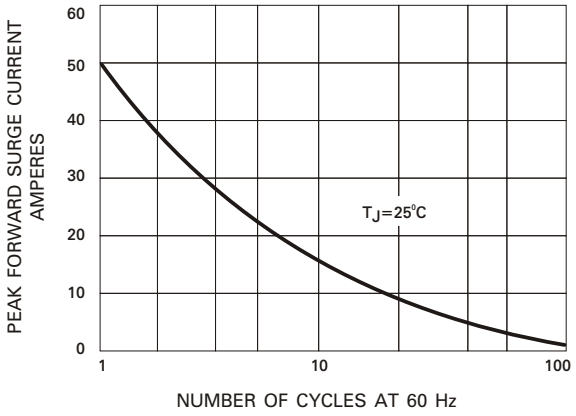

Fig.2 - DERATING CURVE
OUTPUT RECTIFIED CURRENT

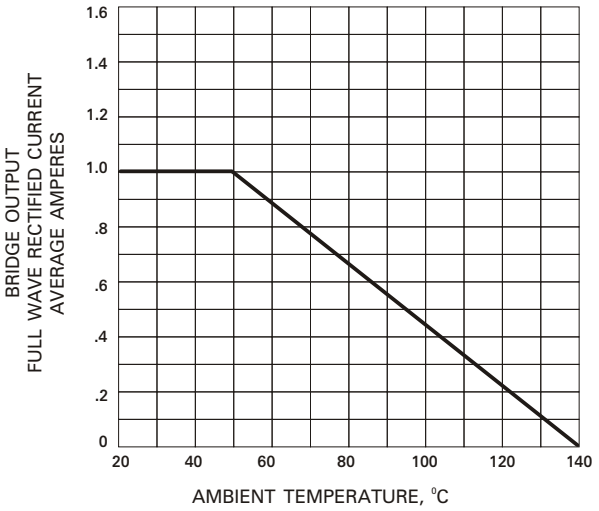

Fig.3 - TYPICAL FORWARD
CHARACTERISTICS

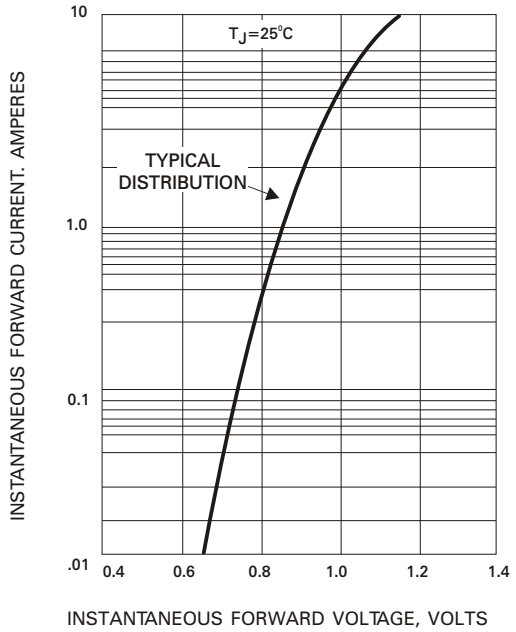

Fig.4 - TYPICAL REVERSE
CHARACTERISTICS