



CHENYI ELECTRONICS

DF005S THRU DF10S

SINGLE PHASE GLASS PASSIVATED SURFACE MOUNT BRIDGE RECTIFIER

Voltage: 50 TO 1000V CURRENT:1.0A

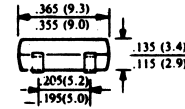
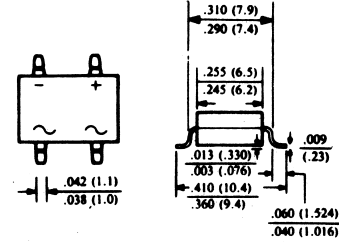
FEATURES

- For surface mount application
- Reliable low cost construction utilizing molded plastic technique
- Surge overload rating: 50A peak

MECHANICAL DATA

- Terminal:** Plated leads solderable per MIL-STD 202E, method 208C
- Case:** UL-94 Class V-0 recognized Flame Retardant Epoxy
- Polarity:** Polarity symbol marked on body
- Mounting position:** any

DFS



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Single-phase, half-wave, 60HZ, resistive or inductive load rating at 25 °C , unless otherwise stated, for capacitive load, derate current by 20%)

	SYMBOL	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 Rectified current at Ta=40 °C	I _{f(av)}	1							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	50							A
Maximum Instantaneous Forward Voltage at forward current 1.0A	V _f	1.1							V
Maximum DC Reverse Voltage Ta=25 °C	I _r	10.0							μ A
at rated DC blocking voltage Ta=125 °C		500							mA
Typical Junction Capacitance	C _j	25							pF
Operating Temperature Range	T _j	-55 to +125							°C
Storage and operation Junction Temperature	T _{stg}	-55 to +150							°C

Note:

1. Measure at 1MHZ and applied reverse voltage of 4.0 volt

RATINGS AND CHARACTERISTIC CURVES DF005S THRU DF10S

FIG.1-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

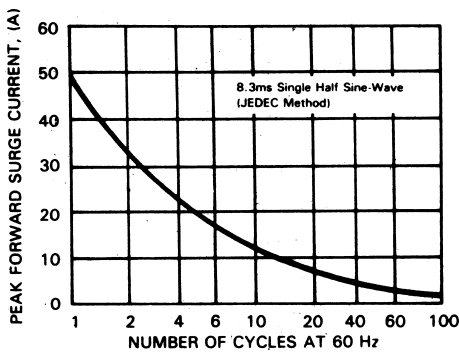


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

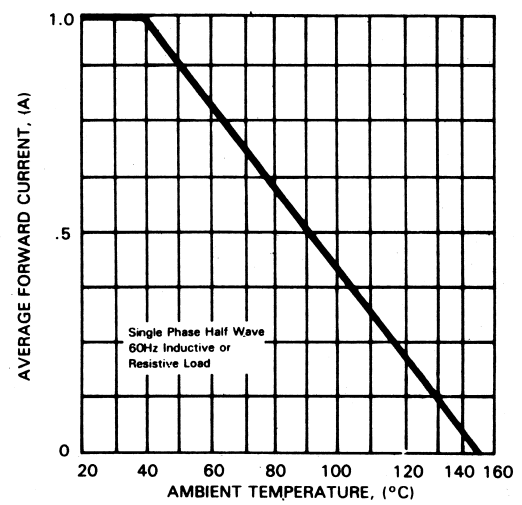


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

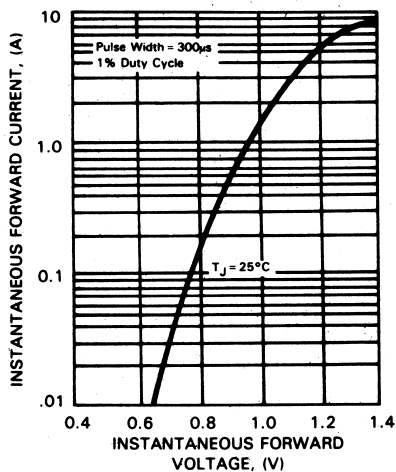


FIG.4-TYPICAL REVERSE CHARACTERISTICS

