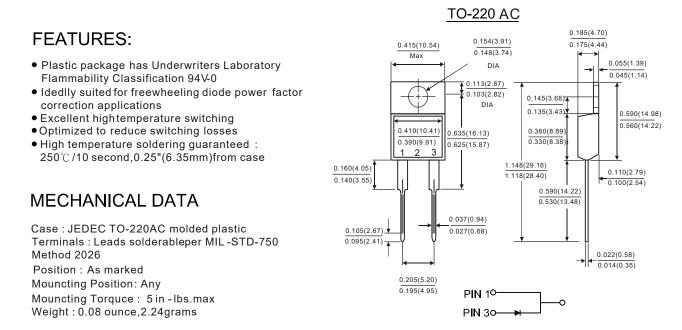


SUPER FAST GLASS PASSIVATED RECTIFIERS



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

Characteristic	Symbol	SF 10005	SF 1001	SF 1002	SF 1003	SF 1004	SF 1006	Units
Maximum recurrent peak reverse voltage	V _{RRM}	50	100	200	300	400	600	Volts
Maximum RMS voltage	V _{RMS}	35	70	140	210	280	420	Volts
Maximum DC blocking voltage	V _{DC}	50	100	200	300	400	600	Volts
Maximum average forward rectified current at Tc=100 $^{\circ}\!\!\!^{\circ}\!\!\!^{\circ}$	I _(AV)	10.0						Amps
Peak forwardsurge current8.3ms singlehalf sine-wave superimposed on rated load (JEDEC Method)(Per leg)	I _{FSM}	100						Amps
Maximum instantaneous forward voltage (Per leg) IF=10.0A	V _F	1.0 1.30 1.70				1.70	Volts	
$\begin{array}{llllllllllllllllllllllllllllllllllll$	I _R	10.0 500.0						μA
Typical reverserecovery time (NOTE 1) (Per leg)	T _{RR}	35						nS
Typical junction capacition (NOTE 2) (Per leg)	CJ	65						P _F
Operating temperature range	TJ	-55to+150						°C
Storage temperature range	T _{Stg}	-55to+150						°C

NOTES:

(1)Reverse Recovery est CONDITION : IF=0.5A, IR=1.0A, IRR=0.25A

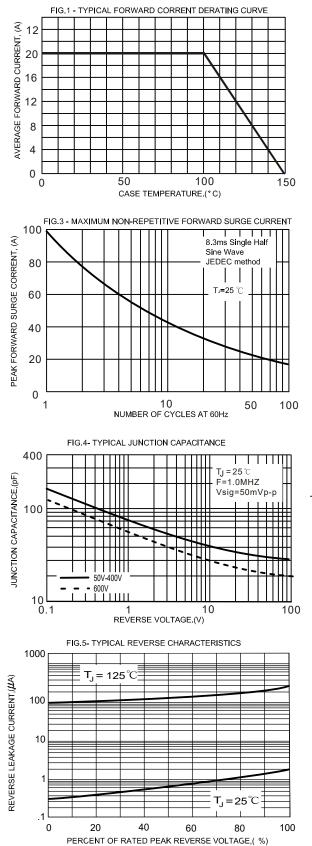
(2)Measured at 1MHz and Reverse Voltage of 4.0V

(3)Marking : <u>SF10005CT</u> = <u>SF10005</u> (Without Marking "CT")

Symbol Marking



RATINGS AND CHARACTERISTIC CURVES



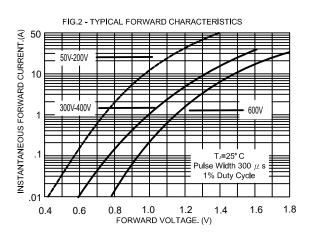
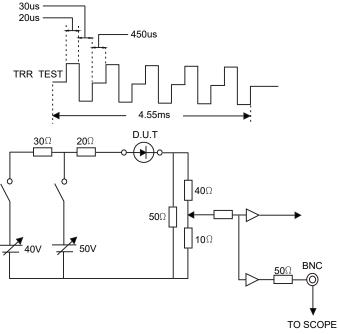
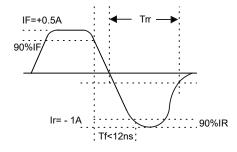


Figure 6 GR1 Test Circuit





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