GLASS PASSIVA ATED SUPER FAST RECTIFIER
SF805 THRU SF860 50 to 600 VOLTS 8.0 AMPERE

Central Plate Electronics Co.,Ltd.

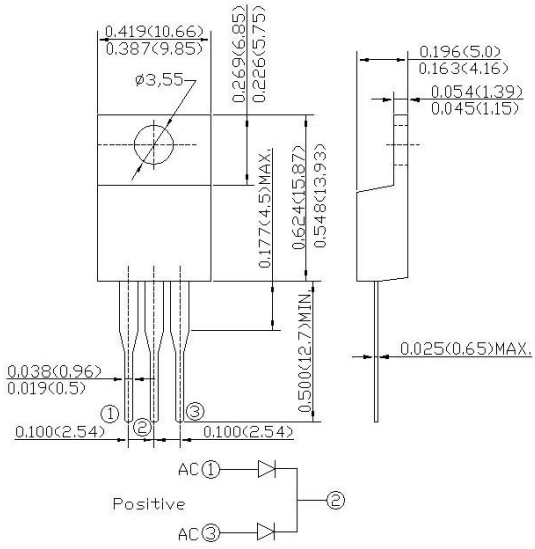
TO-220AB

FEATURES

- Superfast switching time for high efficiency
- High surge capacity.
- Low reverse leakage current

MECHANICAL DATA

- Case: Molded plastic, TO-220AB
- Epoxy: UL 94V-O rate flame retardant
- Terminals: Leads solderable per MIL-STD-202
- method 208 guaranteed
- Polarity: As marked
- Mounting position: Any
- Weight: 0.08ounce, 2.24gram



Dimensions in inches and Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25℃ ambient temperature unless otherwise specified.Single phase, half wave, 60HZ, resistive or inductive load.For capacitive load, derate current by 20%.

	Symbols	SF805CT	SF810CT	SF820CT	SF840CT	SF860CT	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	Volts
Maximum Average Forward Rectified Current at TC=100℃	$I_{(AV)}$	8.0					Amp
Peak Forward Surge Current,8.3ms single half-sine-wavesuperimposed on rated load (JEDEC method)	I_{FSM}	100					Amp
Maximum Forward Voltage at 4.0A and TA=25℃	V_F	1.3					Volts
Maximum Reverse Current at TA=25℃ at Rated DC Blocking Voltage TA=125℃	I_R	10.0 500					uAmp
Typical Junction Capacitance (Note 1)	C_J	80		60			pF
Maximum Reverse Recovery Time (Note 2)	T_{RR}	35		50			nS
Typical Thermal Resistance (Note 3)	$R_{\theta}JC$	2.2					℃/W
Operating and Storage Temperature Range	T_J, T_{stg}	-55 to +150					℃

NOTES:

1- Measured at 1 MHZ and applied reverse voltage of 4.0 VDC.

2- Reverse Recovery Test Conditions：IF=.5A，IR=1A，IRR=.25A.

3- Thermal Resistance from Junction to Case Mounted on Heatsink.

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RATINGS AND CHARACTERISTIC CURVES

FIG.1- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

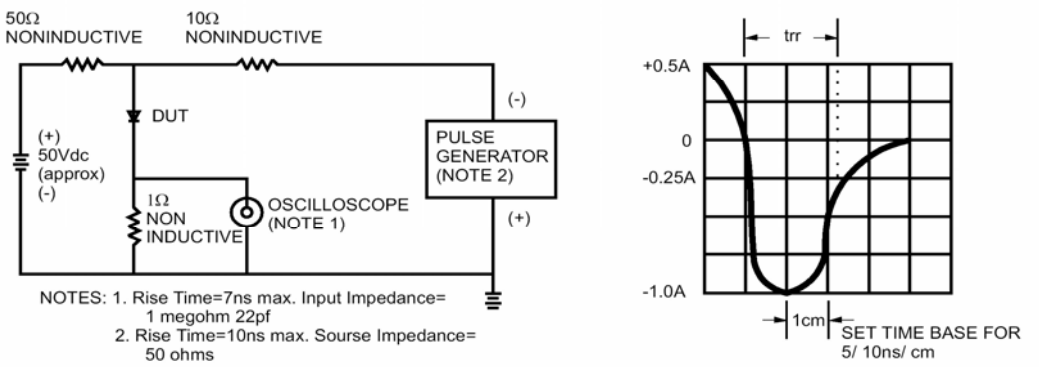

FIG.3- TYPICAL REVERSE CHARACTERISTICS

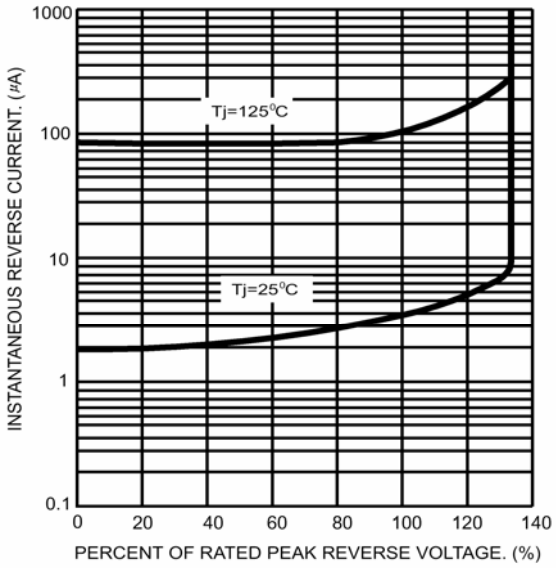

FIG.5- TYPICAL JUNCTION CAPACITANCE

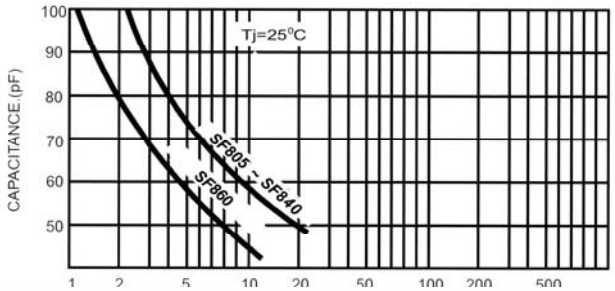

FIG.2- MAXIMUM FORWARD CURRENT DERATING CURVE

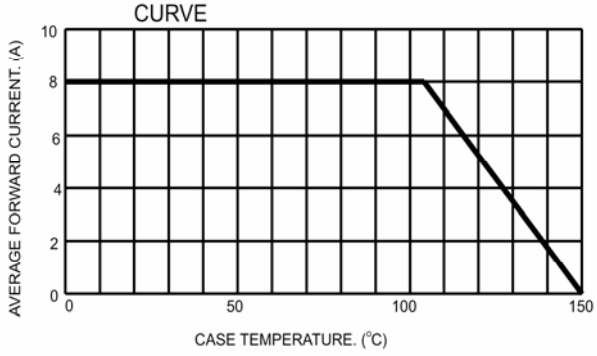

FIG.4- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

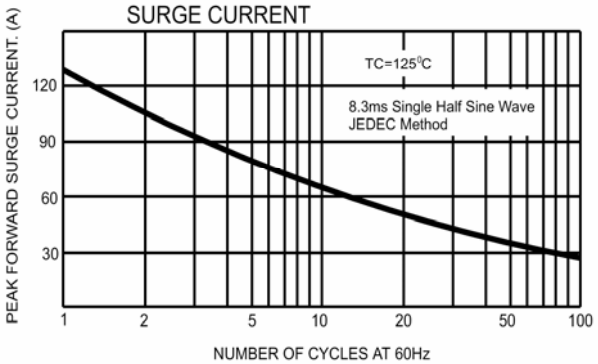

FIG.6- TYPICAL FORWARD CHARACTERISTICS