



## **FEATURES**

- \* Ideal for surface mount applications
- \* Easy pick and place
- \* Built-in strain relief
- \* Fast switching speed

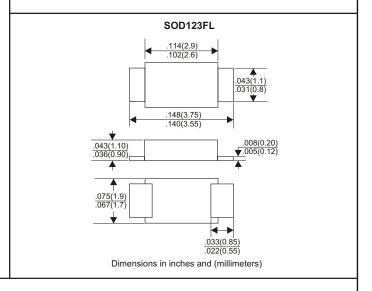
### **MECHANICAL DATA**

\* Case: Molded plastic

- \* Epoxy: UL 94V-0 rate flame retardant
- \* Metallurgically bonded construction
- \* Polarity: Color band denotes cathode end
- \* Mounting position: Any

## VOLTAGE RANGE 50 to 1000 Volts CURRENT

1.0 Ampere



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

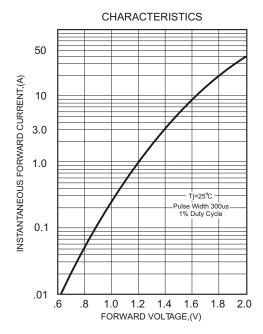
TYPE NUMBER		F1A	F1B	F1D	F1G	F1J	F1K	F1M	UNITS
Maximum Recurrent Peak Reverse Voltage		50	100	200	400	600	800	1000	V
Maximum RMS Voltage		35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current			•	•	•	•		•	
at Ta=25°C			1.0						
Peak Forward Surge Current, 8.3 ms single half sine-wave									
superimposed on rated load (JEDEC method)			30						
Maximum Instantaneous Forward Voltage at 1.0A			1.3						
Maximum DC Reverse Current Ta=25°C			5.0						
at Rated DC Blocking Voltage	Ta=100°C		100						μА
Maximum Reverse Recovery Time (Note 1)			150			250	500		nS
Typical Junction Capacitance (Note 2)			15						
Typical Thermal Resistance R JA (Note 3)			80						
Operating and Storage Temperature Range Тл, Тsтс			-65—+150						
Marking Code									

#### NOTES

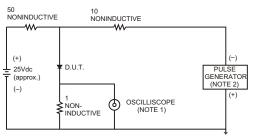
- 1. Reverse Recovery Time test condition: IF=0.5A, IR=1.0A, IRR=0.25A
- 2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 3. Thermal Resistance from Junction to Ambient.

### RATING AND CHARACTERISTIC CURVES (F1A THRU F1M)

FIG.1-TYPICAL FORWARD

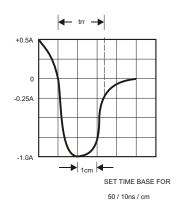


# FIG.3- TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTICS

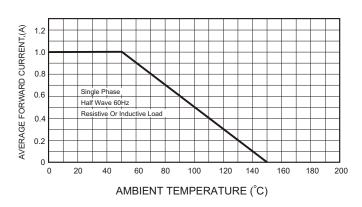


NOTES: 1. Rise Time= 7ns max., Input Impedance= 1 megohm.22pF

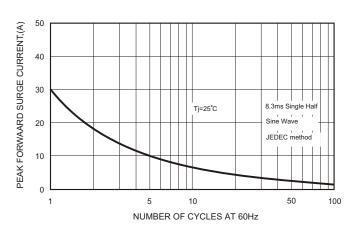
2. Rise Time= 10ns max., Source Impedance= 50 ohms



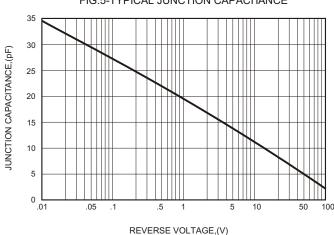
### FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE



# FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



### FIG.5-TYPICAL JUNCTION CAPACITANCE



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