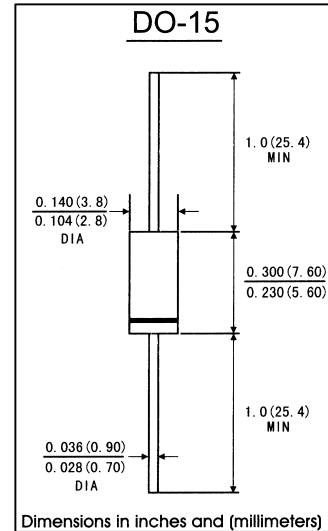


**FEATURES**

- . Low forward voltage drop
- . High current capability
- . High reliability
- . High surge current capability
- . Super fast recovery time
- . Good for use in switching mode circuits
- . Plastic package has Underwriters Laboratory  
Flammability Classification 94V-0

**MECHANICAL DATA**

- . **Case:** JEDEC DO-15 molded plastic body
- . **Terminals:** plated axial leads, solderable per MIL-STD-750, method 2026
- . **Polarity:** Color band denotes cathode end
- . **Mounting Position:** Any
- . **Weight:** 0.014 ounce, 0.40 gram



**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%)

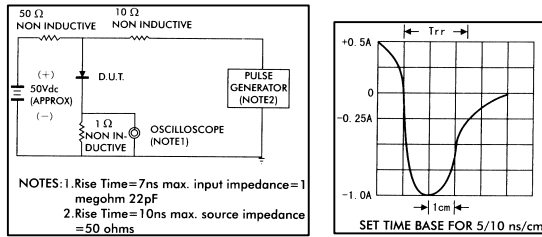
	Symbols	SF 201	SF 202	SF 203	SF 204	SF 205	SF 206	Units
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	50	100	150	200	300	400	Volts
Maximum RMS voltage	V <sub>RMS</sub>	35	70	105	140	210	280	Volts
Maximum DC blocking voltage	V <sub>DC</sub>	50	100	150	200	300	400	Volts
Maximum average forward rectified current 0.375"(9.5mm)lead length at T <sub>A</sub> =55°C	I <sub>(AV)</sub>	2.0						Amp
Peak forward surge current 8.3ms sing-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	50.0						Amps
Maximum instantaneous forward voltage at 2.0 A	V <sub>F</sub>	0.95			1.25			Volts
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	T <sub>A</sub> =25°C	5.0					μA
		T <sub>A</sub> =100°C	50					
Maximum reverse recovery time(Note 1)	T <sub>rr</sub>	35						ns
Typical junction Capacitance(Note 2)	C <sub>J</sub>	60			30			pF
Operating junction and storage temperature range	T <sub>J</sub>	-65 to +125						°C
	T <sub>STG</sub>	-65 to +150						

**Notes:** 1. Test conditions: I<sub>F</sub>=0.5A, I<sub>R</sub>=1.0A, I<sub>rr</sub>=0.25A.

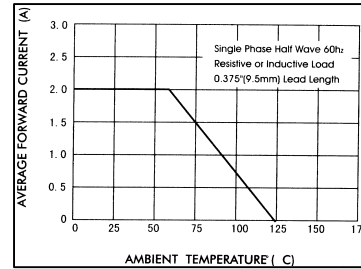
2. Measured at 1MHz and applied reverse voltage of 4.0V Volts

**RATINGS AND CHARACTERISTIC CURVES SF201 THRU SF206**

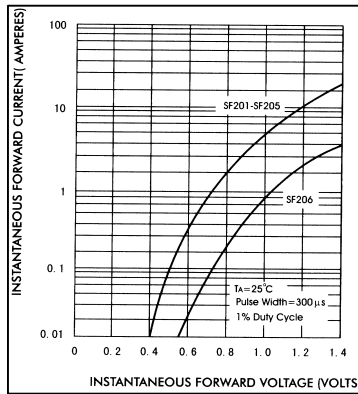
**FLG.1-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC**



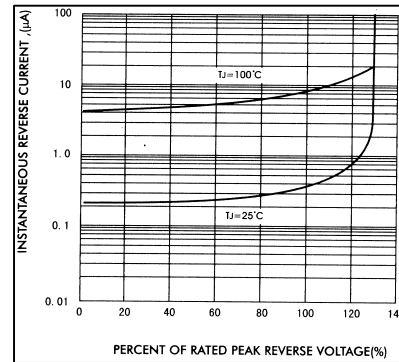
**FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE**



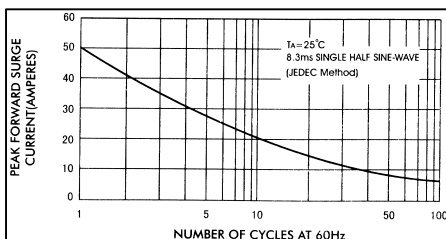
**FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS**



**FIG.4-TYPICAL REVERSE CHARACTERISTICS**



**FIG.5-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT**



**FIG.6-TYPICAL JUNCTION CAPACITANCE**

