

SF201 THRU SF206

SUPER FAST RECTIFIER

Reverse Voltage - 50 to 400 Volts Forward Current - 2.0Amperes

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



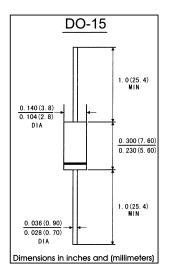
. Case: JEDEC DO-15 molded plastic body

. 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	VRRM	50	100	150	200	300	400	Volts
Maximum RMS voltage	VRMS	35	70	105	140	210	280	Volts
Maximum DC blocking voltage	VDC	50	100	150	200	300	400	Volts
Macimum average forward rectified current 0.375"(9.5mm)lead length at Ta=55°C	I(AV)	2.0						Amp
Peak forward surge current 8.3ms sing-wave superimposed on rated load (JEDEC method)	IFSM	50.0						Amps
Maximum instantaneous forward voltage at 2.0 A	VF		0.95 1.25				Volts	
Maximum DC Rreverse TA=25°C	: IR	5.0					μА	
Current At Rated DC Blocking Voltage T _A =100		50						
Maximum reverse recovery time(Note 1)	Trr	35				ns		
Typical junction Capacitance(Note 2)	Сл	C _J 6		60		3	30	pF
Operating junction and storage temperature range	TJ TSTG	-65 to +125 -65 to +150					°C	

Notes: 1.Test conditions:IF=0.5A,IR=1.0A,Irr=0.25A.

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



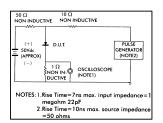
SF201 THRU SF206

SUPER FAST RECTIFIER

Reverse Voltage - 50 to 400 Volts Forward Current - 2.0Amperes

RATINGS AND CHARACTERISTIC CURVES SF201 THRU SF206

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



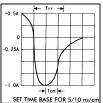


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

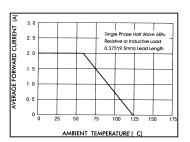


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARATERISTICS

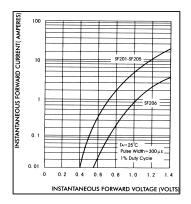


FIG.4-TYPICAL REVERSE CHARACTERISTICS

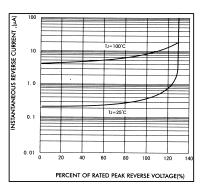


FIG.5-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

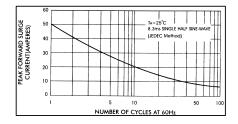


FIG.6-TYPICAL JUNCTION CAPACITANCE

