



SUPER FAST GLASS PASSIVATED RECTIFIER

SF301P THRU SF304P

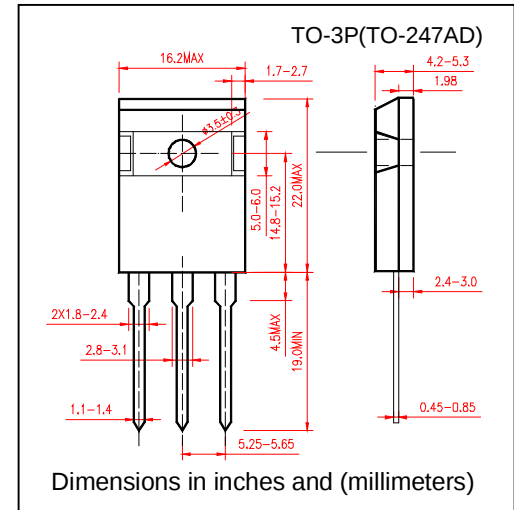
VOLTAGE RANGE	50 to 200 Volts
CURRENT	30.0 Ampere

FEATURES

- Glass passivated chip junction
- Low power loss, high efficiency
- Low leakage
- Super fast switching speed
- High surge capacity
- High temperature soldering guaranteed
250°C/10 second, 0.16" (4.06mm) lead length
- Also available with common Anode, add an "A" suffix,
i.e. SF301PA, add as a doubler, add a "D" suffix,
i.e. SF301PD

MECHANICAL DATA

- Case: Transfer molded plastic
- Epoxy: UL94V-0 rate flame retardant
- Lead: Solderable per MIL-STD-202E method 208C
- Polarity: as marked
- Mounting position: Any, 10 in-lbs Torque Max
- Weight: 0.22ounce, 6.3 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	SF301P	SF302P	SF303P	SFF304P	UNIT
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	50	100	150	200	Volts
Maximum RMS Voltage		V _{RMS}	35	70	105	140	Volts
Maximum DC Blocking Voltage		V _{DC}	50	100	150	200	Volts
Maximum Average Forward Rectified Current At T _C =100℃		I _(AV)	30				Amps
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC method)		I _{FSM}	250				Amps
Maximum Instantaneous Forward Voltage per at 15.0A		V _F	1.0				Volts
Maximum DC Reverse Current at rated DC Blocking Voltage at	T _A = 25℃	I _R	10				μA
	T _A = 125℃		500				
Maximum Reverse Recovery Time Test conditions I _F =0.5A, I _R =1.0A, I _{RR} =0.25A		t _{rr}	35				nS
Typical Junction Capacitance (Measured at 1.0MHz and applied reverse voltage of 4.0V)		C _J	60				pF
Typical Thermal Resistance (Note 1)		R _{θJC}	1.5				℃/W
Operating Junction Temperature		T _J	(-55 to +150)				℃
Storage Temperature Range		T _{STG}	(-55 to +150)				℃

Notes:

1. Unit mounted on heatsink



SUPER FAST GLASS PASSIVATED RECTIFIER

SF301P THRU SF304P

VOLTAGE RANGE 50 to 200 Volts
CURRENT 30.0 Ampere

RATING AND CHARACTERISTIC CURVES SF301P THRU SF304P

FIG.1-TYPICAL FORWARD CURRENT
DERATING CURVE

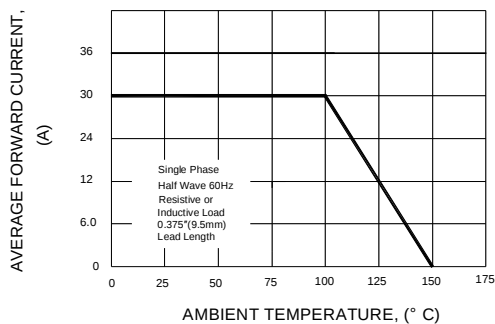


FIG.2-MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT

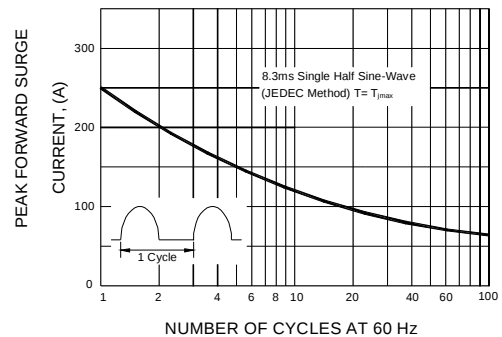


FIG.3-TYPICAL INSTANTANEOUS
FORWARD CHARACTERISTICS PER LEG

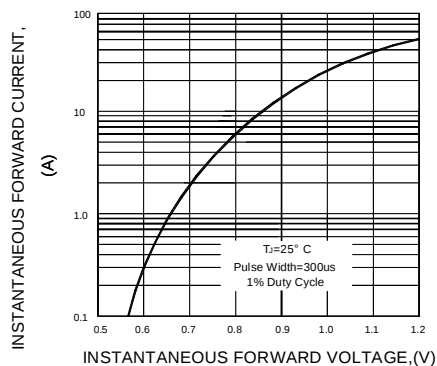


FIG.4-TYPICAL REVERSE
CHARACTERISTICS PER LEG

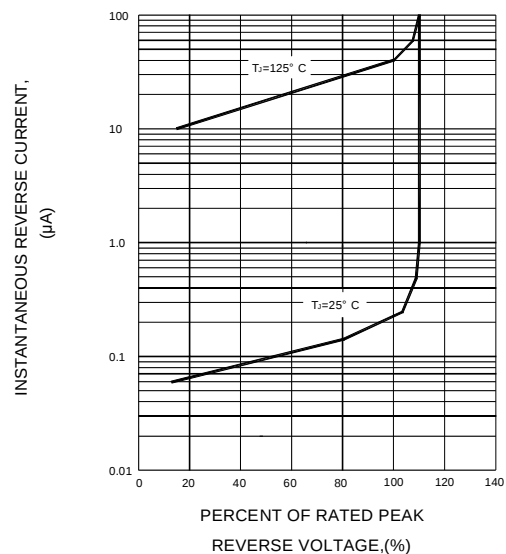


FIG.5-TYPICAL JUNCTION CAPACITANCE
PER LEG

