

#### Pb Free Plating Product

# SF3004PT thru SF3008PT





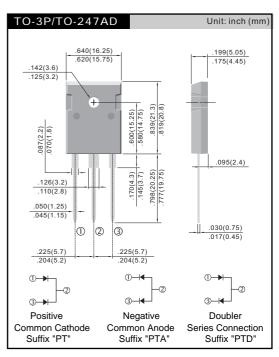
30.0 Ampere Dual Common Cathode Super Fast Recovery Rectifiers

### **Features**

- Dual rectifier construction, positive center-tap
- Plastic package has Underwriters Laboratory Flammability Classification 94V0
- ♦ Glass passivated chip junctions
- ♦ Superfast recovery time, high voltage
- ♦ Low forward voltage, high current capability
- Low power loss, high efficiency
- High temperature soldering guaranteed: 260°C, 0.16"(4.06mm)from case for 10 seconds

## **Mechanical Data**

- ♦ Cases: TO-3P/TO-247AD molded plastic
- Terminals: Pure tin plated, lead free solderable per MIL-STD-750. Method 2026
- ♦ Polarity: As marked
- Mounting position: Any
- ♦ Mounting torque: 10in-lbs. Max.
- Weight: 0.2 ounce, 5.6 gram approximately



#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

	SYMBOL	SF3004PT SF3004PTA SF3004PTD	SF3006PT SF3006PTA SF3006PTD	SF3008PT SF3008PTA SF3008PTD	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	200	400	600	V
Maximum RMS Voltage	VRMS	140	280	420	V
Maximum DC Blocking Voltage	VDC	200	400	600	V
Maximum Average Forward Rectified Current Tc=125°C	IF(AV)	30.0			А
Peak Forward Surge Current, 8.3ms single Half sine-wave superimposed on rated load (JEDEC method)	IFSM	300			А
Maximum Instantaneous Forward Voltage @ 15.0 A	VF	0.98	1.3	1.7	V
Maximum DC Reverse Current @T <sub>J</sub> =25°C At Rated DC Blocking Voltage @T <sub>J</sub> =125°C	lR	10 500			uA uA
Maximum Reverse Recovery Time (Note 1)	Trr	35			nS
Typical junction Capacitance (Note 2)	CJ	150			pF
Operating Junction and Storage Temperature Range	TJ, TSTG	-55 to +150			°C

NOTES: (1) Reverse recovery test conditions IF = 0.5A IR = 1.0A Irr = 0.25A.

- (2) Thermal Resistance junction to terminal.
- (3) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts DC.

Rev.05



