# Pb Free Plating Product

## SF304A/SF306A/SF307A





30 Ampere Dual Common Anode Fast Recovery Half Bridge Rectifiers

#### **Features**

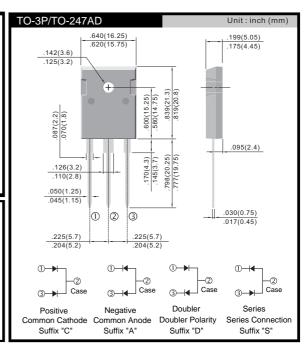
- Latest GPP technology with super fast recovery time
- ★ Low forward voltage drop
- High current capability
- ★ Low reverse leakage current
- ★ High surge current capability

#### Application

- \* Automotive Inverters/Solar Inverters
- ★ Plating Power Supply,SMPS,Adapter and UPS
- ★ Car Audio Amplifiers and Sound Device Systems

#### **Mechanical Data**

- Case: TO-247AD/TO-3P heatsink
- ★ Epoxy: UL 94V-0 rate flame retardant
- Terminals: Solderable per MIL-STD-202 method 208
- ★ Polarity: As marked on diode body
- ★ Mounting position: Any
- ★ Weight: 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.

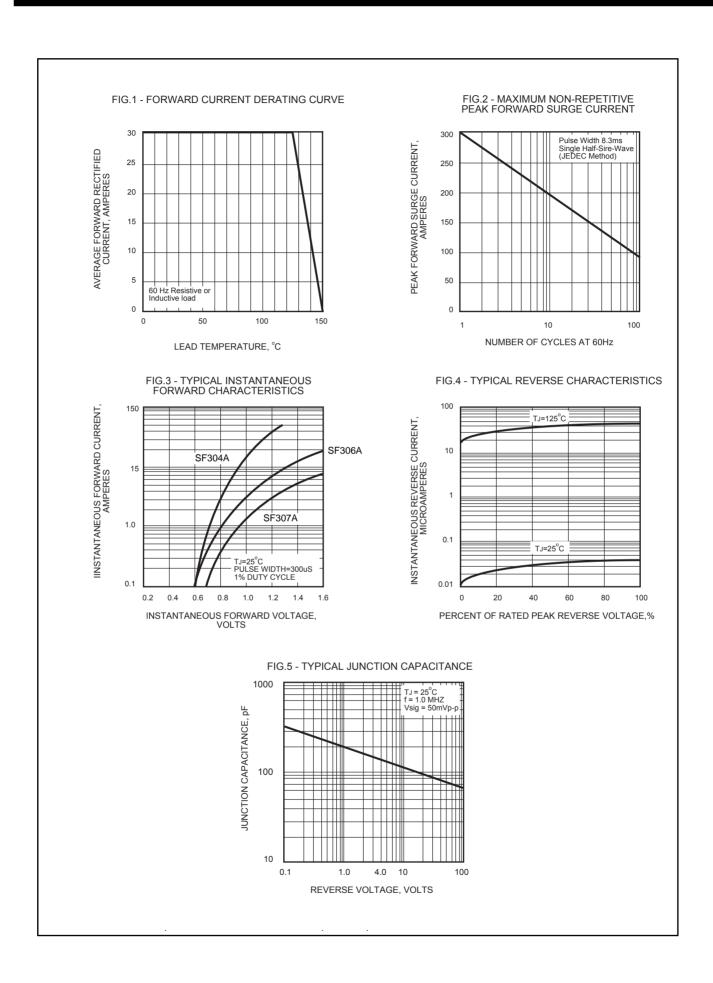
For capacitive load, derate current by 20%.

	SYMBOL	SF304A	SF306A	SF307A	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			A
Maximum Instantaneous Forward Voltage @ 15.0 A	VF	0.98	1.3	1.7	٧
Maximum DC Reverse Current @Tj=25°C At Rated DC Blocking Voltage @Tj=125°C	lR	10 500			uA uA
Maximum Reverse Recovery Time (Note 1)	Trr	35-50			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.

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