# FMX32S thru FMX36S



## FMX32S/FMX33S/FMX34S/FMX36S



20 Ampere Dual Common Cathode Super Fast Recovery Half Bridge Rectifiers

#### Features

- ★ Latest GPP technology with super fast recovery time
- ★ Low forward voltage drop

**Pb Free Plating Product** 

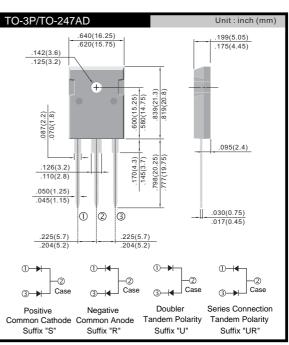
- ★ High current capability
- ★ Low reverse leakage current
- ★ High surge current capability

#### 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
- ★ 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	FMX32S	FMX33S FMX34S	FMX36S	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)	20.0			A
Peak Forward Surge Current, 8.3ms single Half sine-wave superimposed on rated load (JEDEC method)	IFSM	200	175		A
Maximum Instantaneous Forward Voltage @ 10.0 A	VF	0.98	1.3	1.7	V
Maximum DC Reverse Current @TJ=25°C At Rated DC Blocking Voltage @TJ=125°C	IR	10.0 250			uA uA
Maximum Reverse Recovery Time (Note 1)	Trr	35			nS
Typical junction Capacitance (Note 2)	CJ	120 70		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) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts DC.



