Rev.08T

### FMX21S/FMX22S/FMX23S/FMX24S/FMX25S/FMX26S RoHS

10 Amperes Insulated Dual Common Cathode Ultra Fast Recovery Half Bridge Rectifiers

85)

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ITO-220AB/TO-220F-3L

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### Features

- Fast switching for high efficiency
- Low forward voltage drop \*

Pb Free Plating Product

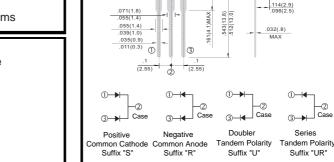
- \* High current capability
- Low reverse leakage current
- \* High surge current capability

## Application

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

## **Mechanical Data**

- Case: ITO-220AB full plastic isolated package \*
- \* 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: 1.75 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	FMX21S FMX22S	FMX23S FMX24S	FMX25S FMX26S	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=100°C (Total Device 2*5A=10A)	IF(AV)	10.0			A
Peak Forward Surge Current, 8.3ms single Half sine-wave superimposed on rated load (JEDEC method)	IFSM	100			А
Maximum Instantaneous Forward Voltage @ 5.0 A (Both Diode/Per Diode/Per Leg)	VF	0.98	1.3	1.7	V
Maximum DC Reverse Current @TJ=25°C At Rated DC Blocking Voltage @TJ=125°C	IR	5.0 100			μΑ μΑ
Maximum Reverse Recovery Time (Note 1)	Trr	35			nS
Typical junction Capacitance (Note 2)	CJ	65			pF
Typical Thermal Resistance (Note 3)	Rejc	3.0			°C/W
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.

(3) Thermal Resistance junction to case





Unit : inch (mm)

3

189(4.8)

.130(3.3)



