

## Pb Free Plating Product

# FMG22R/FMG23R/FMG24R/FMG26R Rohs





10 Ampere Insulated Common Anode Fast Recovery Half Bridge Rectifiers

#### **Features**

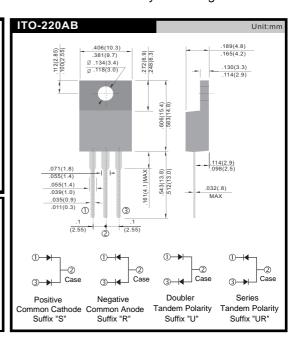
- Latest GPP technology with super fast recovery time
- Low forward voltage drop
- High current capability
- Low reverse leakage current
- High surge current capability

#### Application

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

#### **Mechanical Data**

- Case: Fully Isolated Molding TO-220F Plastic Full Pak
- 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: 2.0 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	FMG22R	FMG23R FMG24R	FMG26R	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	IF(AV)		10.0		А
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	VF	0.98	1.3	1.7	V
Maximum DC Reverse Current @TJ=25°C At Rated DC Blocking Voltage @TJ=125°C	lR	5.0 100			uA uA
Maximum Reverse Recovery Time (Note 1)	Trr	35			nS
Typical junction Capacitance (Note 2)	Cı	65			pF
Typical Thermal Resistance (Note 3)	Reuc	3.0			°C/W
Operating Junction and Storage Temperature Range	ТJ, Tsтg	-55 to +150			ဗ

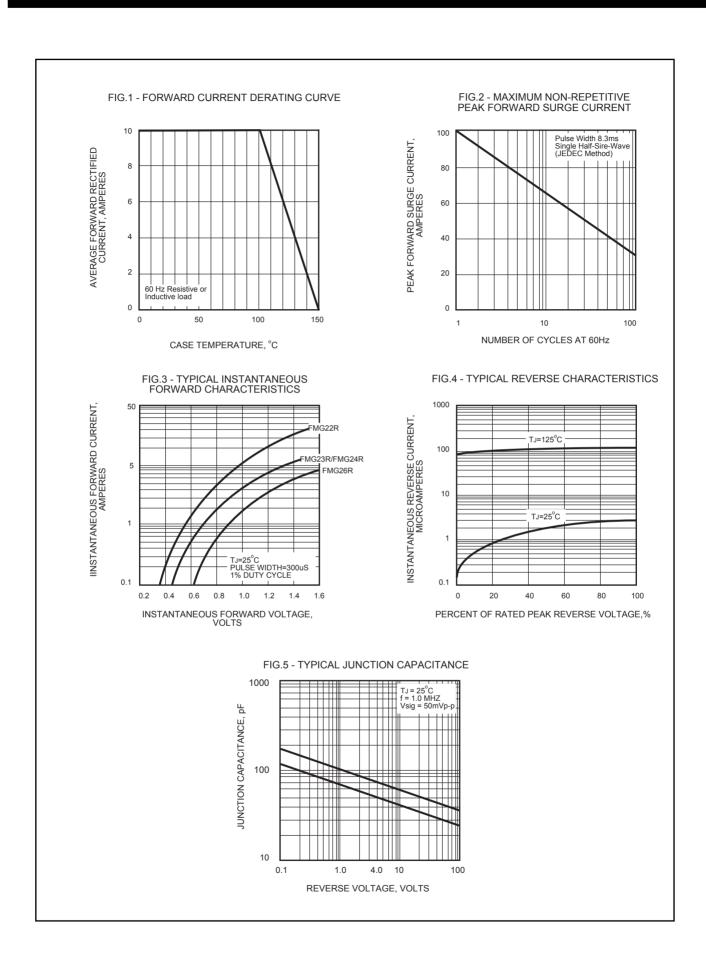
NOTES: (1) Reverse recovery test conditions IF = 0.5A, IR = 1.0A, Irr = 0.25A.

(2) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts DC.

(3) Thermal Resistance junction to case.

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