

**Pb Free Plating Product**

FMU21R/FMU22R/FMU23R/FMU24R/FMU25R/FMU26R

10 Amperes Insulated Dual Common Anode Fast Recovery Half Bridge Rectifiers

**Features**

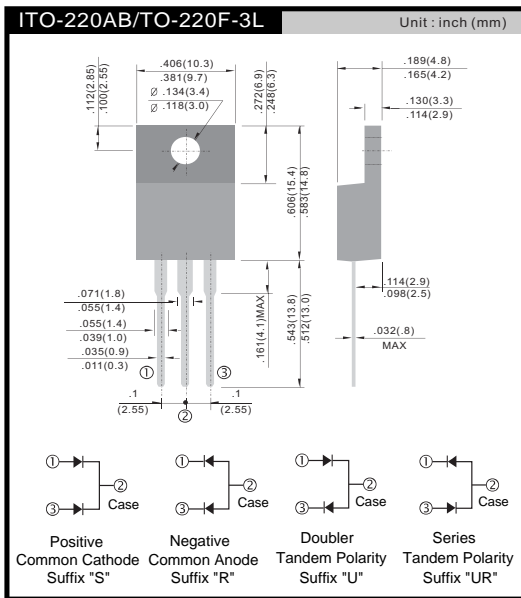
- \* Fast switching for high efficiency
- \* Low forward voltage drop
- \* High current capability
- \* Low reverse leakage current
- \* High surge current capability

**Application**

- \* Automotive Inverters and Solar Inverters
- \* Plating Power Supply, SMPS 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	FMU21R FMU22R	FMU23R FMU24R	FMU25R FMU26R	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 T <sub>C</sub> =100°C (Total Device 2*5A=10A)	I <sub>F(AV)</sub>	10.0			A
Peak Forward Surge Current, 8.3ms single Half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	100			A
Maximum Instantaneous Forward Voltage @ 5.0 A (Both Diode/Per Diode/Per Leg)	V <sub>F</sub>	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	I <sub>R</sub>	5.0 100			µA µA
Maximum Reverse Recovery Time (Note 1)	T <sub>rr</sub>	35			nS
Typical junction Capacitance (Note 2)	C <sub>J</sub>	65			pF
Typical Thermal Resistance (Note 3)	R <sub>θJC</sub>	3.0			°C/W
Operating Junction and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55 to +150			°C

NOTES : (1) Reverse recovery test conditions I<sub>F</sub> = 0.5A, I<sub>R</sub> = 1.0A, I<sub>rr</sub> = 0.25A.  
 (2) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts DC.  
 (3) Thermal Resistance junction to case.

FIG.1 - FORWARD CURRENT DERATING CURVE

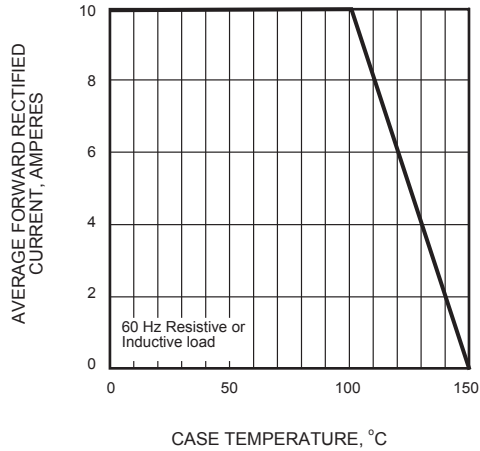


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

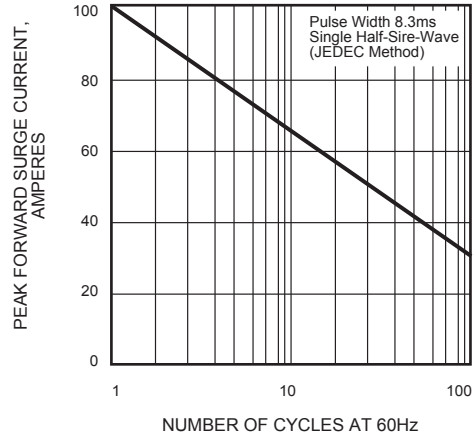


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

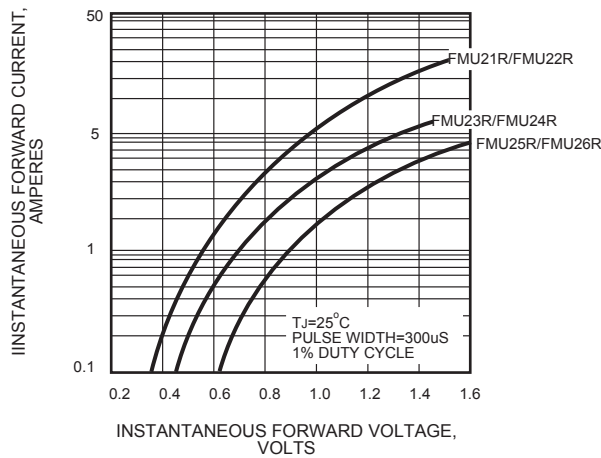


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

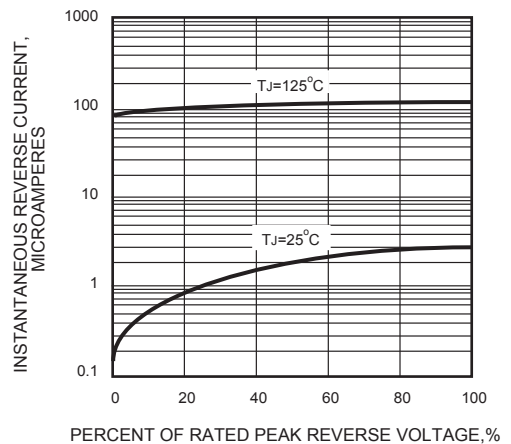


FIG.5 - TYPICAL JUNCTION CAPACITANCE

