# Pb Free Plating Product

## URF2020S/URF2040S/URF2060S





20 Ampere Insulated Series Connection Fast Recovery Half Bridge Rectifiers

#### **Features**

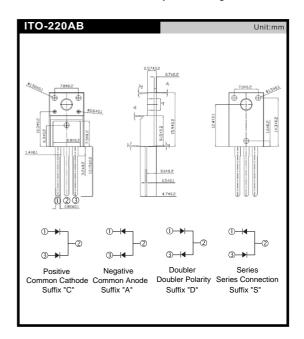
- ★ Latest GPP technology with super fast recovery time
- ★ Low forward voltage drop
- High current capability
- ★ Low reverse leakage current
- ★ High surge current capability

### Application

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

#### **Mechanical Data**

- ★ Case: Fully Isolated Molding TO-220FP
- ★ 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: 2.1 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.

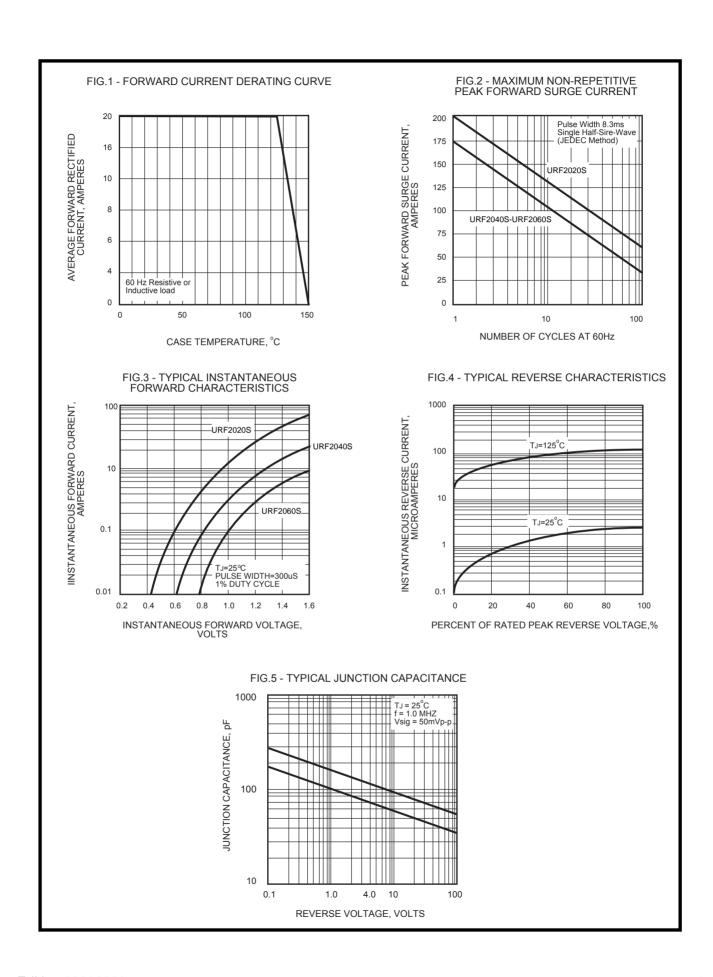
For capacitive load, derate current by 20%.

	SYMBOL	URF2020S	URF2040S	URF2060S	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			А
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	lR	5.0 100			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.

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