Rev.06

# 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

**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, 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.

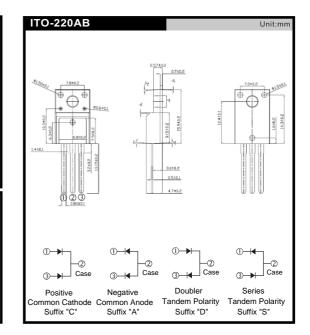
Single phase, half wave, 60Hz, resistive or inductive load.

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			A
Peak Forward Surge Current, 8.3ms single Half sine-wave superimposed on rated load (JEDEC method)	IFSM	200	175		А
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.

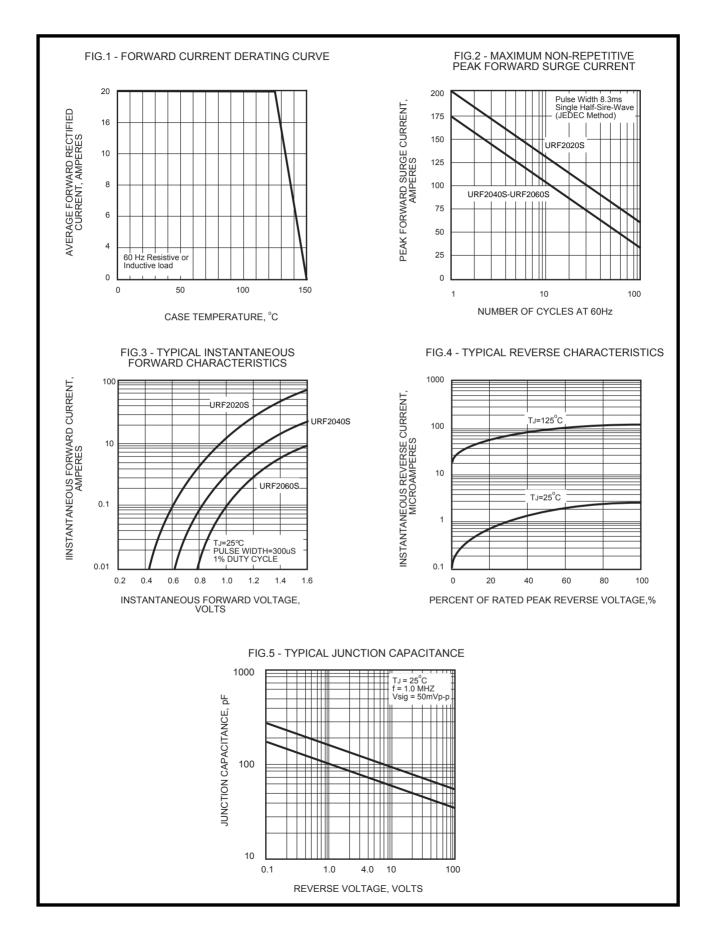
(2) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts DC.





**BoH** 





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