Pb Free Plating Product

F20C20C/F20C30C/F20C40C/F20C50C/F20C60C





20Ampere Heat Sink Dual Common Cathode Fast Recovery Half Rectifiers

Features

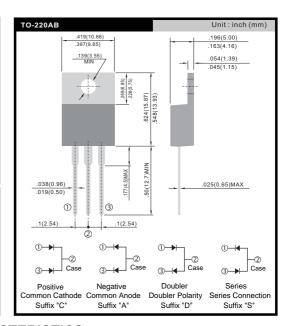
- ★ Fast switching for high efficiency
- ★ Low forward voltage drop
- ★ High current capability
- ★ Low reverse leakage current
- ★ High surge current capability

Application

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

Mechanical Data

- ★ Case: Heatsink TO-220AB open metal 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: 2.2 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.

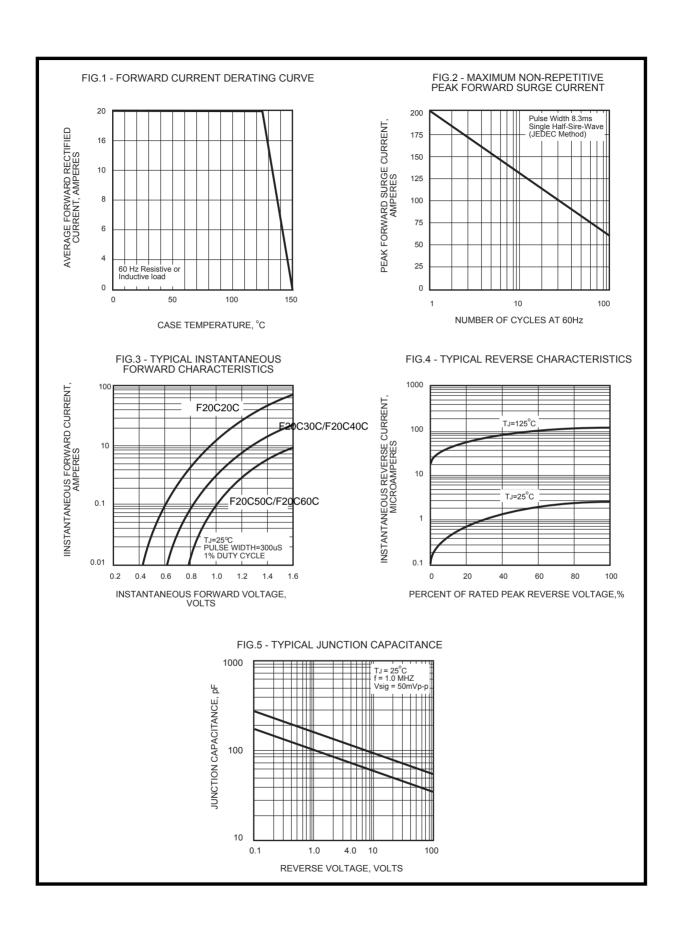
For capacitive load, derate current by 20%.

	SYMBOL	F20C20C	F20C30C F20C40C	F20C50C F20C60C	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 ℃ (Total Device 2x10A=20A)	IF(AV)		20.0		А
Peak Forward Surge Current, 8.3ms single Half sine-wave superimposed on rated load (JEDEC method)	IFSM		200		A
Maximum Instantaneous Forward Voltage @ 10.0 A (Per Diode/Per Leg)	VF	0.98	1.3	1.7	V
Maximum DC Reverse Current @TJ=25℃ At Rated DC Blocking Voltage @TJ=125℃	lR	5.0 100			μA μA
Maximum Reverse Recovery Time (Note 1)	Trr	35			nS
Typical junction Capacitance (Note 2)	Cı	120 70			pF
Typical Thermal Resistance (Note 3)	Reuc	2.0			°C/W
Operating Junction and Storage Temperature Range	TJ, TSTG	-55 to + 150			$^{\circ}$ C

NOTES: (1) Reverse recovery test conditions IF= 0.5A, R= 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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