

Pb Free Plating Product

F16C20A thru F16C60A





16.0 Ampere Heatsink Common Anode Fast Recovery Rectifier Diode

Feature

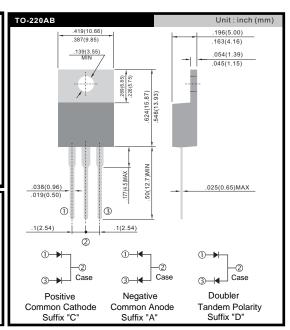
- Fast switching for high efficiency
- Low forward voltage drop
- High current capability
- Low reverse leakage current
- High surge current capability

Application

- Automotive Environment(Inverters/Converters)
- Plating Power Supply, Adaptor, SMPS and UPS
- Car Audio Amplifiers and Sound Device System

Mechanical Data

- Case:TO-220AB Heatsink
- 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.

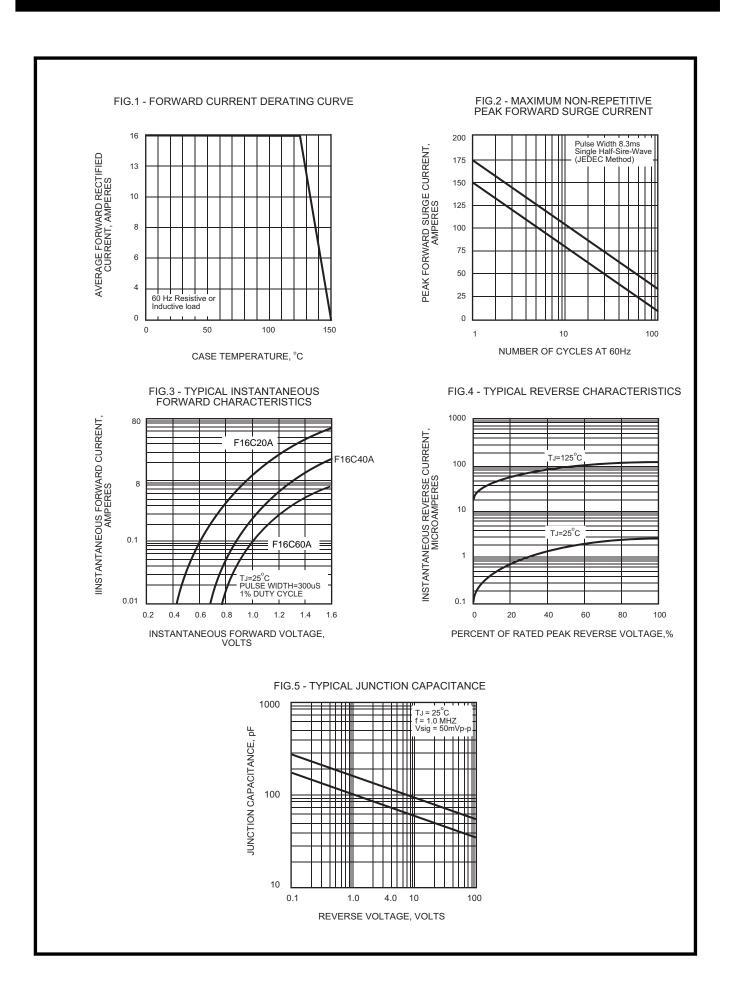
For capacitive load, derate current by 20%.

	SYMBOL	F16C20C F16C20A F16C20D	F16C40C F16C40A F16C40D	F16C60C F16C60A F16C60D	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)	16.0		А	
Peak Forward Surge Current, 8.3ms single Half sine-wave superimposed on rated load (JEDEC method)	IFSM	175	150		A
Maximum Instantaneous Forward Voltage @ 8.0 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	10.0 250			uA uA
Maximum Reverse Recovery Time (Note 1)	Trr	35			nS
Typical junction Capacitance (Note 2)	Cı	90			pF
Typical Thermal Resistance (Note 3)	Reuc	2.2			°C/W
Operating Junction and Storage Temperature Range	Тл, Тѕтс	-55 to + 150			°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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