

Pb Free Plating Product

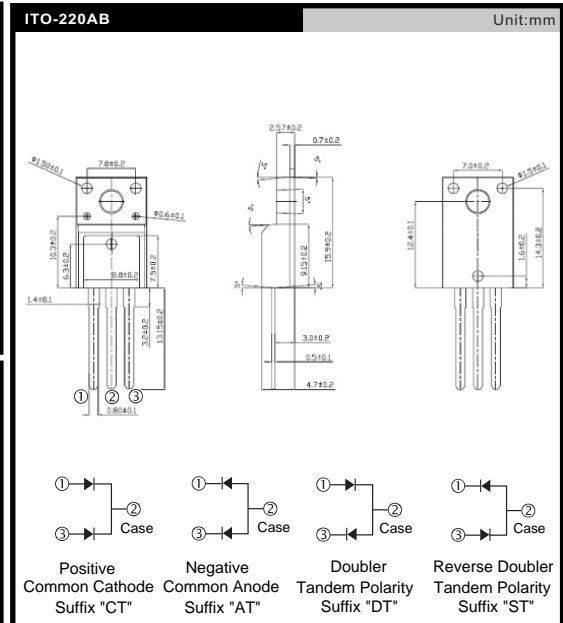
UFF160-02CT thru UFF160-06CT



16 Ampere Dual Common Cathode Ultra Fast Recovery Half Bridge Rectifier

Features
<ul style="list-style-type: none"> ★ Latest GPP technology with super fast recovery time ★ Low forward voltage drop ★ High current capability ★ Low reverse leakage current ★ High surge current capability
Application
<ul style="list-style-type: none"> ★ Automotive Inverters and Solar Inverters ★ Plating Power Supply, SMPS and UPS ★ Car Audio Amplifiers and Sound Device Systems

Mechanical Data
<ul style="list-style-type: none"> ★ Case: Fully Insulated TO-220FP FullPak Plastic ★ 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	UFF160-02CT	UFF160-04CT	UFF160-06CT	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			A
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	IR		5.0		uA
			250		uA
Maximum Reverse Recovery Time (Note 1)	Trr		35		nS
Typical junction Capacitance (Note 2)	CJ		90		pF
Typical Thermal Resistance (Note 3)	RθJC		2.2		°CW
Operating Junction and Storage Temperature Range	TJ, TSTG	-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.

FIG.1 - FORWARD CURRENT DERATING CURVE

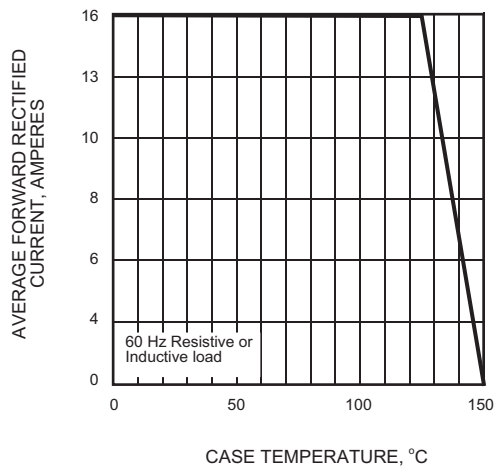


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

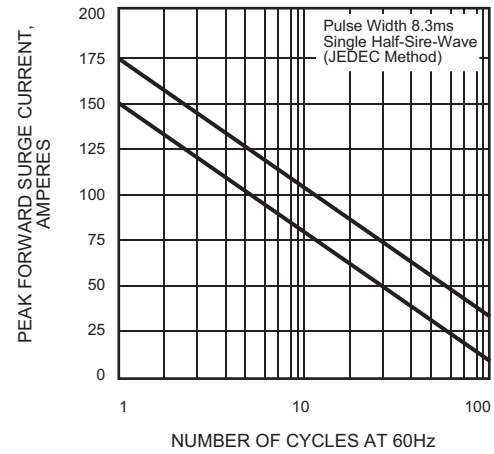


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

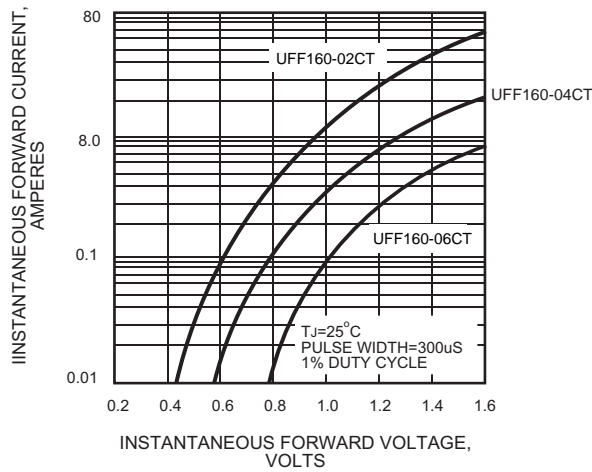


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

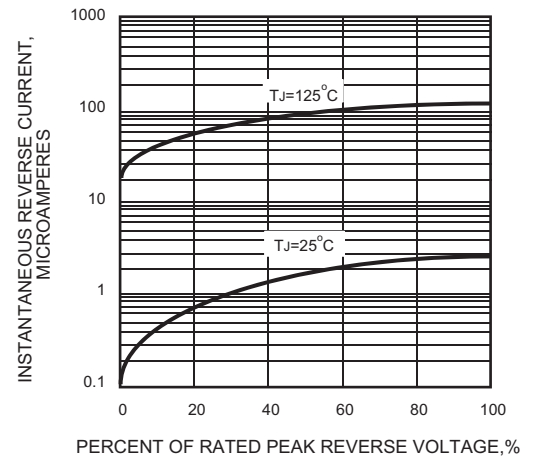


FIG.5 - TYPICAL JUNCTION CAPACITANCE

