

Pb Free Plating Product

UF1600CT thru UF1608CT



16Ampere Heat Sink Dual Common Cathode High Efficiency Rectifiers

Features

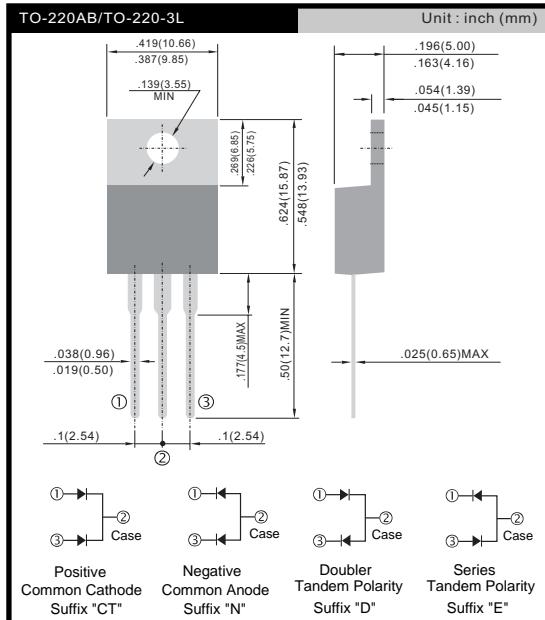
- ★ Fast switching for high efficiency
- ★ Low forward voltage drop
- ★ High current capability
- ★ Low reverse leakage current
- ★ High surge current capability

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: 2.0 gram approximately



Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

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

For capacitive load, derate current by 20%.

Characteristic	Symbol	UF1600CT	UF1601CT	UF1602CT	UF1603CT	UF1604CT	UF1606CT	UF1608CT	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	50	100	200	300	400	600	800	V
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	210	280	420	560	V
Average Rectified Output Current @T _C = 105°C	I _O				16				A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}				125				A
Forward Voltage @I _F = 8.0A	V _{FM}		1.0		1.3		1.7		V
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 125°C	I _{RM}				10 500				µA
Reverse Recovery Time (Note 1)	t _{rr}			50		100			nS
Typical Junction Capacitance (Note 2)	C _j		80		50				pF
Operating and Storage Temperature Range	T _j , T _{STG}			-65 to +150					°C

Note: 1. Measured with IF = 0.5A, IR = 1.0A, IRR = 0.25A.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

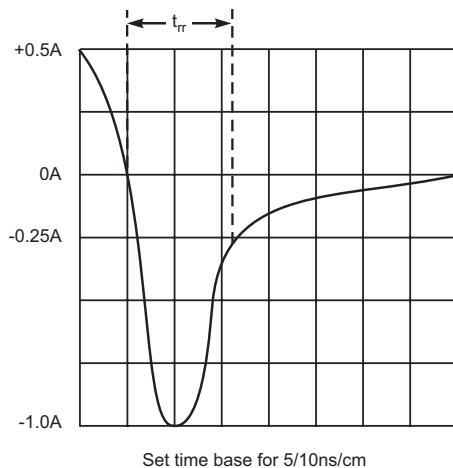
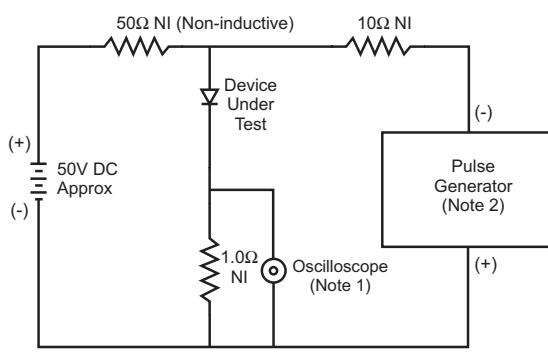
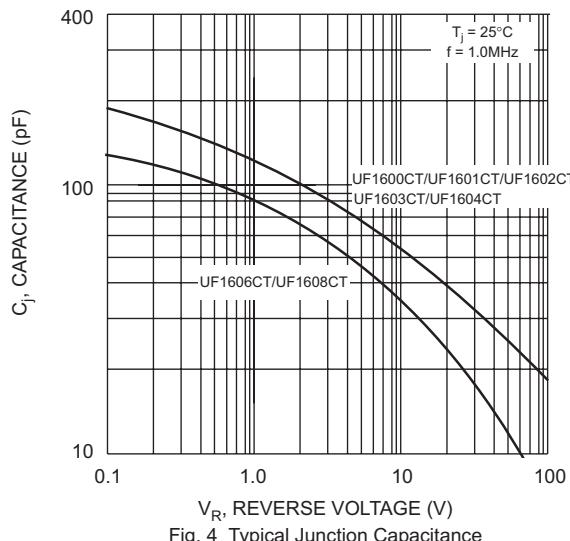
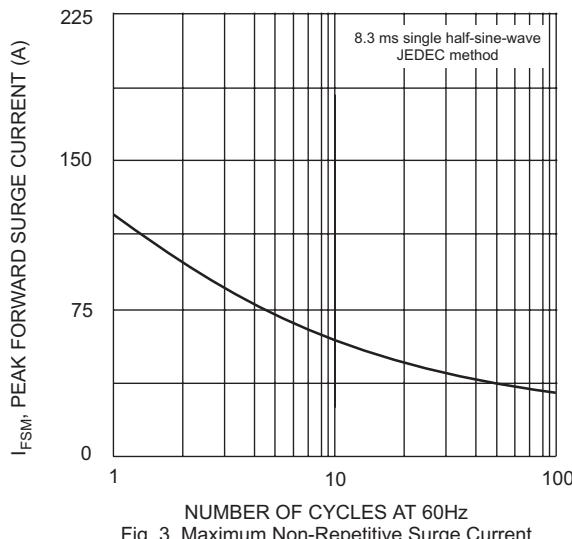
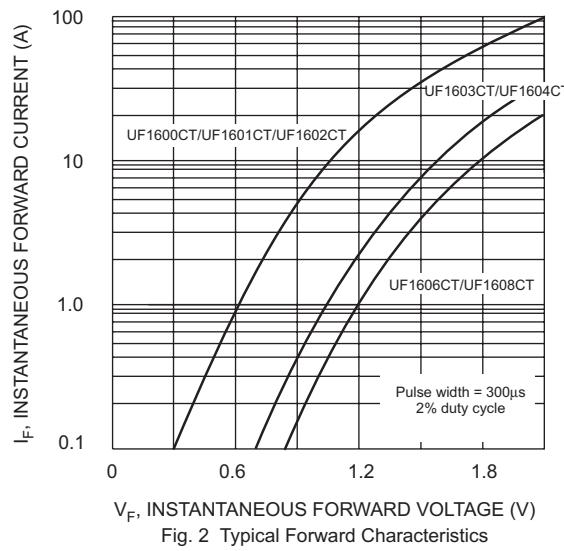
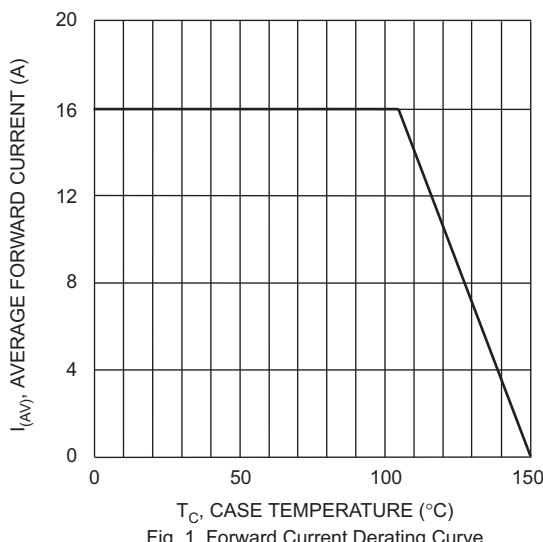


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit