

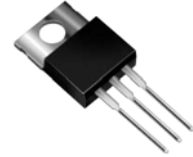


MUR805CT thru MUR860CT

Glass Passivated Super Fast Rectifiers
Reverse Voltage 50 to 600 Volts Forward Current 8.0 Amperes

Features

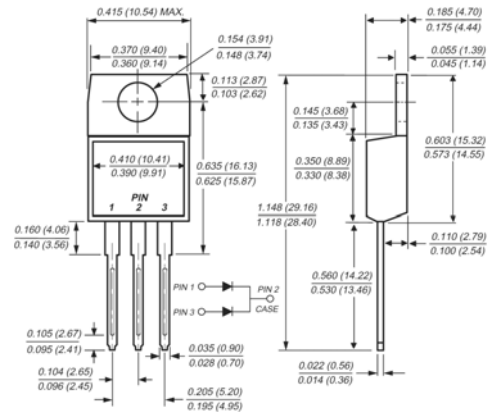
- ◆ Superfast switching time for hight efficiency
- ◆ Low reverse leakage current
- ◆ High surge capacity



TO-220AB

Mechanical Data

- ◆ Case: TO-220AB full molded plastic package
- ◆ Terminals: Lead solderable per MIL-STD-202, Method 208
- ◆ Polarity: As marked
- ◆ Standard packaging: Any
- ◆ Weight: 0.08 ounces, 2.24 grams



Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

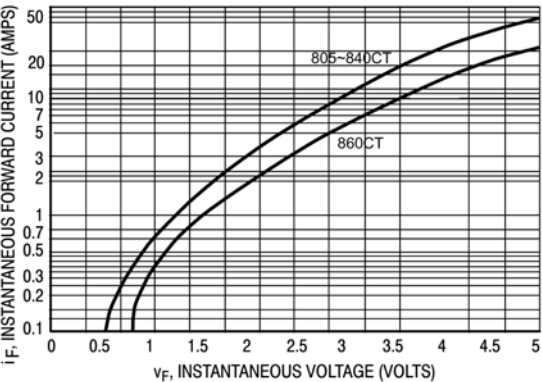
Parameter	Symbol	MUR805CT	MUR810CT	MUR820CT	MUR840CT	MUR860CT	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	Volts
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	Volts
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	Volts
Maximum average forward rectified current at T _C =120°C	I _{F(AV)}	8.0					Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	100.0					Amps
Maximum instantaneous forward voltage at 4.0A per element	V _F	2.2				2.8	Volts
Maximum DC reverse current @T _J =25°C at rated DC blocking voltage @T _J =100°C	I _R	10.0 800					µA
Maximum reverse recovery time at I _F =0.5A, I _R =1.0A, I _R =0.25A	t _{rr}	30			50		nS
Operating junction and storage temperature range	T _J , T _{STG}	-55 to +150					°C

Notes: 1. Pulse test: Pulse width 300 μs , Duty cycle 2%

RATINGS AND CHARACTERISTIC CURVES

(T_A = 25°C unless otherwise noted)

Figure 1
Typical Forward Characteristics



Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Typical Reverse Characteristics

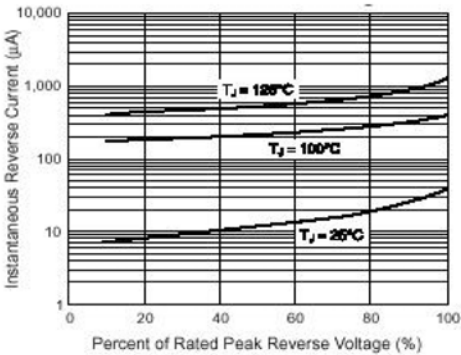
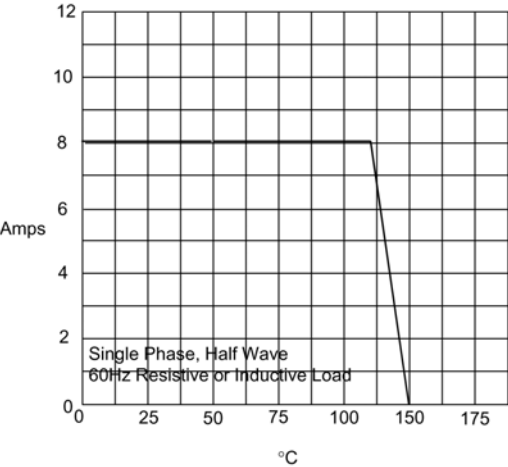
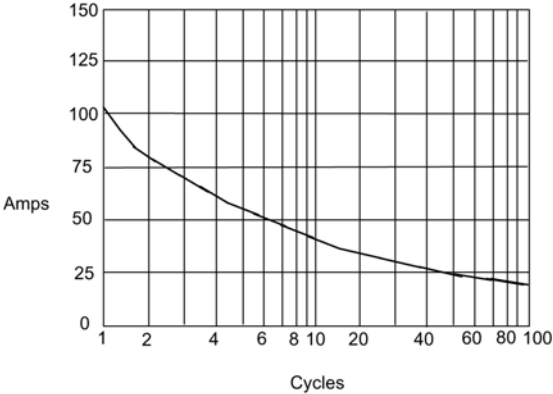


Figure 3
Forward Derating Curve



Average Forward Rectified Current - Amperes *versus*
Ambient Temperature - °C

Figure 4
Maximum Non-Repetitive Forward Surge Current



Peak Forward Surge Current - Amperes *versus*
Number Of Cycles At 60Hz - Cycles