

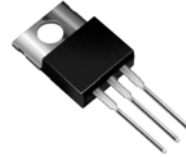


MUR1605CT thru MUR1660CT

Glass Passivated Super Fast Rectifiers
Reverse Voltage 50 to 600 Volts Forward Current 16.0 Amperes

Features

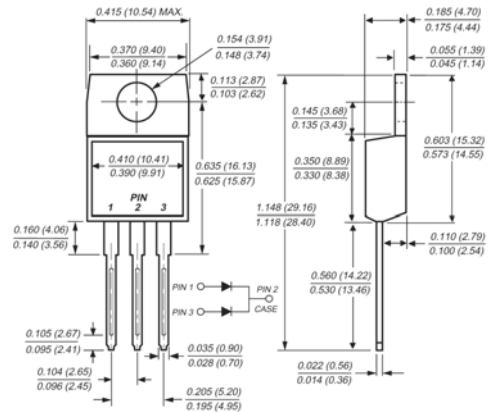
- ◆ Glass passivated junction
- ◆ Superfast recovery time for high efficiency
- ◆ Low reverse leakage current
- ◆ High surge capacity



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	MUR 1605CT	MUR 1610CT	MUR 1620CT	MUR 1630CT	MUR 1640CT	MUR 1660CT	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	300	400	600	Volts
Maximum RMS voltage	V _{RMS}	35	70	140	210	280	420	Volts
Maximum DC blocking voltage	V _{DC}	50	100	200	300	400	600	Volts
Maximum average forward rectified current at T _C =90°C	I _{F(AV)}	16.0						Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	90.0						Amps
Maximum instantaneous forward voltage at 8.0A per element	V _F	0.975			1.3		1.5	Volts
Maximum DC reverse current @T _J =25°C at rated DC blocking voltage @T _J =125°C	I _R	10.0 500						µA
Maximum reverse recovery time at I _F =1.0A, I _R =0.5A, I _{RR} =0.25A	t _{rr}	35				50		nS
Typical junction capacitance at 4.0V, 1MHz	C _J	62						pF
Typical thermal resistance	R _{θJC}	3.0						°C/W
Operating junction and storage temperature range	T _J , T _{STG}	-55 to +150						°C

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

RATINGS AND CHARACTERISTIC CURVES

(T_A = 25°C unless otherwise noted)

Figure 1
Typical Forward Characteristics

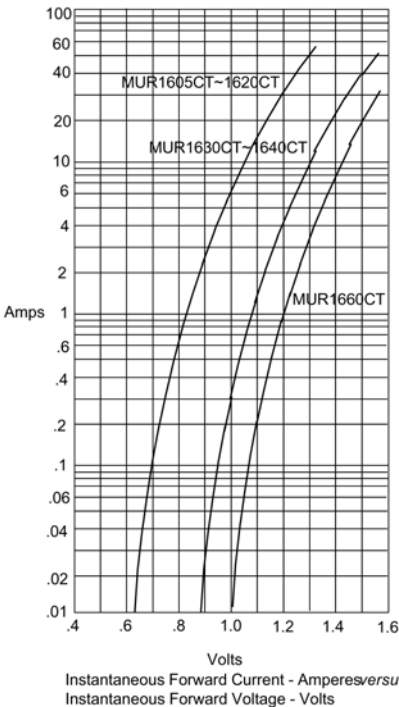


Figure 2
Typical Reverse Characteristics

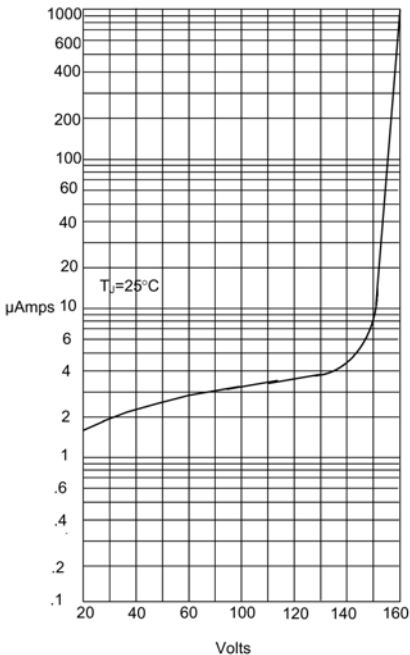


Figure 3
Forward Derating Curve

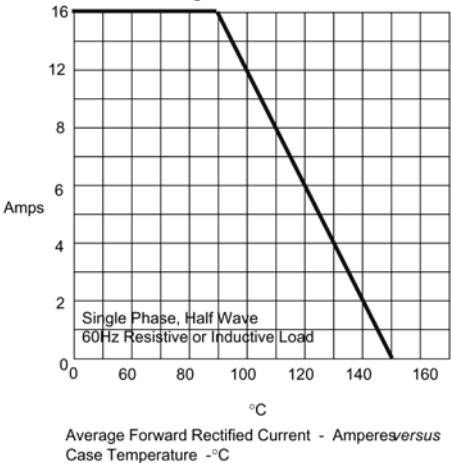


Figure 4
Maximum Non-Repetitive Forward Surge Current

