

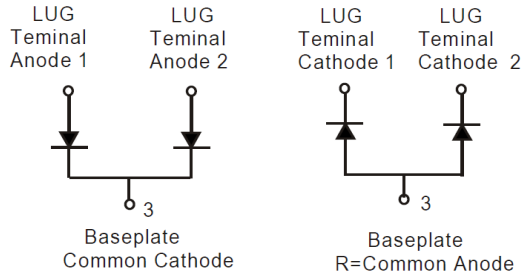
CURRENT 200 Ampere

VOLTAGE RANG 200 to 600 Volts

## MUR20040CT THRU MUR20060CTR

### Features

- Dual Diode Construction
- Low Leakage Current
- Low forward voltage drop
- High surge current capability
- Super Fast Switching



Twin Tower Package



Maximum Ratings ( $T_J = 25^\circ\text{C}$ unless otherwise specified)					
Parameter	Symbol	Conditions	MUR20040CT(R)	MUR20060CT(R)	Units
Repetitive peak reverse voltage	$V_{RRM}$		400	600	V
RMS reverse voltage	$V_{RMS}$		280	420	V
DC blocking voltage	$V_{DC}$		400	600	V
Average forward current	$I_{F(AV)}$	$T_C \leq 140^\circ\text{C}$	200	200	A
Non-repetitive forward surge current, half sine-wave	$I_{FSM}$	$T_C = 25^\circ\text{C}$	800	800	A

Electrical Characteristics ( $T_J = 25^\circ\text{C}$ unless otherwise specified)					
Parameter	Symbol	Conditions	MUR20040CT(R)	MUR20060CT(R)	Units
DC forward voltage	$V_F$	$I_F = 50\text{ A}$ $T_J = 25^\circ\text{C}$	1.3	1.7	V
DC reverse current	$I_R$	$V_R = 50\text{ V}$ $T_J = 25^\circ\text{C}$	25	25	$\mu\text{A}$
		$V_R = 50\text{ V}$ $T_J = 125^\circ\text{C}$	1	1	mA
Maximum Reverse Recovery Time	$t_{rr}$	$I_F = 0.5\text{ A}$ $I_R = 1.0\text{ A}$ $I_{RR} = 0.25\text{ A}$	90	110	nS

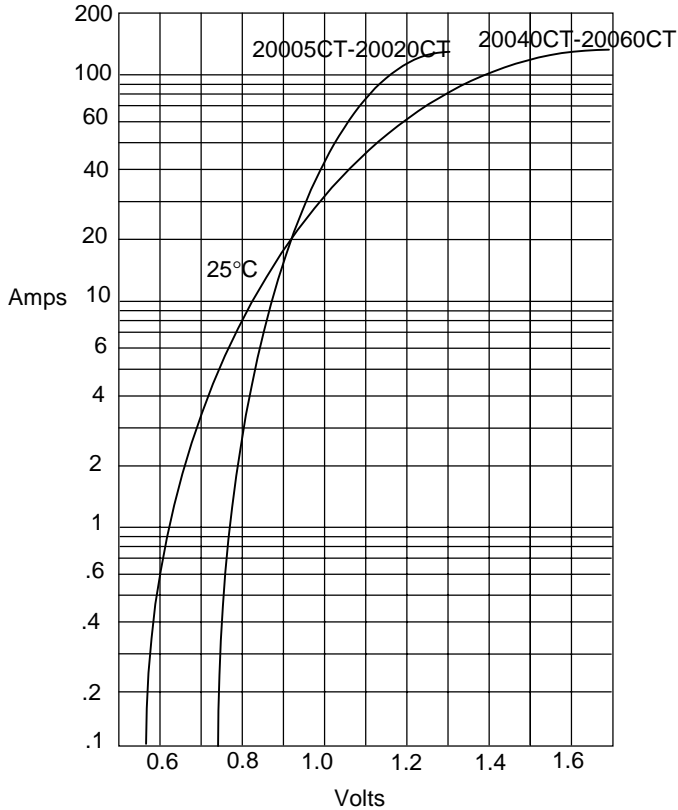
Thermal Characteristics ( $T_J = 25^\circ\text{C}$ unless otherwise specified)					
Parameter	Symbol		MUR20040CT(R)	MUR20060CT(R)	Units
Thermal resistance junction to case	$R_{thj-c}$		1.0	1.0	$^\circ\text{C/W}$
Operating, storage temperature range	$T_J, T_{stg}$		- 40 to +175	- 40 to +175	$^\circ\text{C}$

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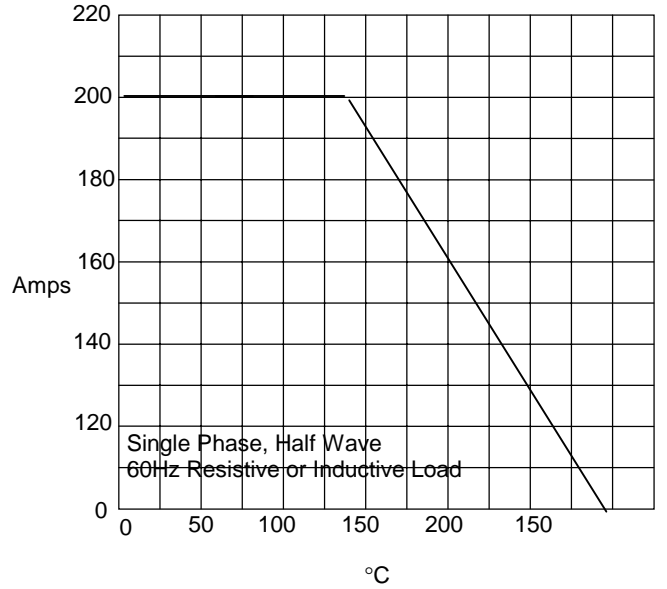
**MUR20040CT THRU MUR20060CTR**

Figure 1  
Typical Forward Characteristics



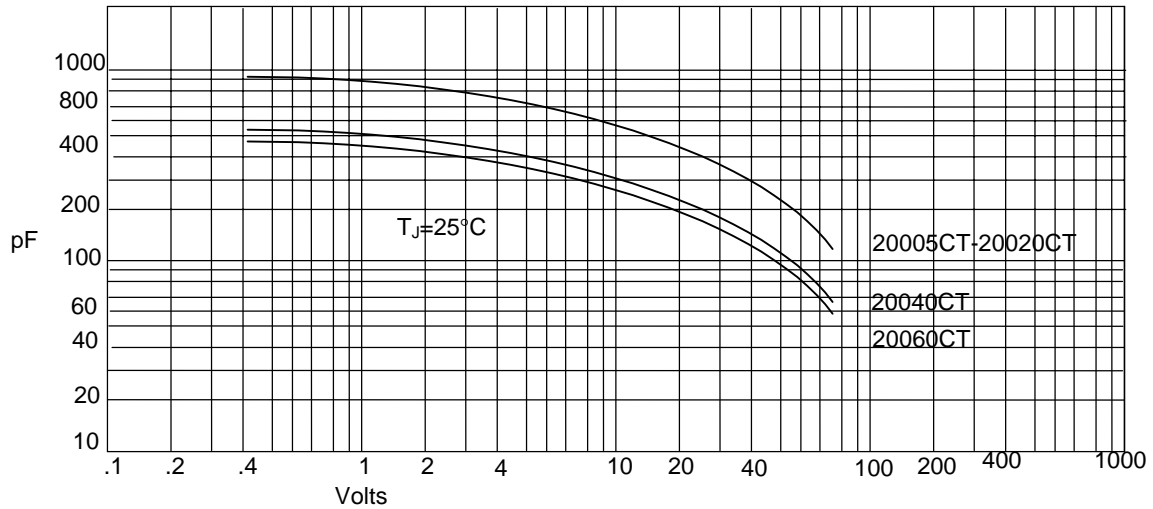
Instantaneous Forward Current - Amperes versus Instantaneous Forward Voltage - Volts

Figure 2  
Forward Derating Curve



Average Forward Rectified Current - Amperes versus Case Temperature - °C

Figure 3  
Junction Capacitance



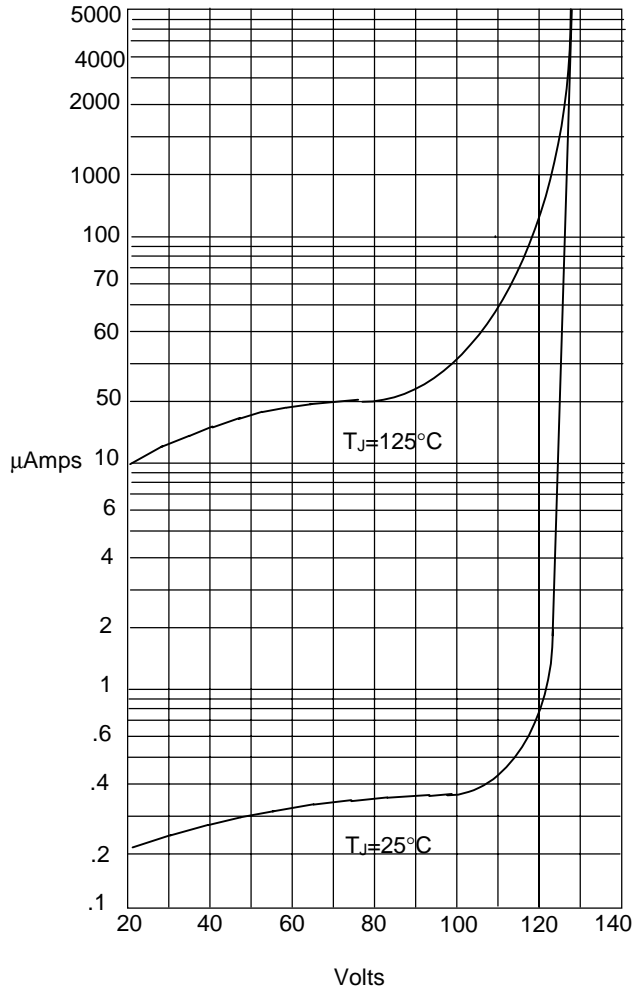
Junction Capacitance - pF versus Reverse Voltage - Volts

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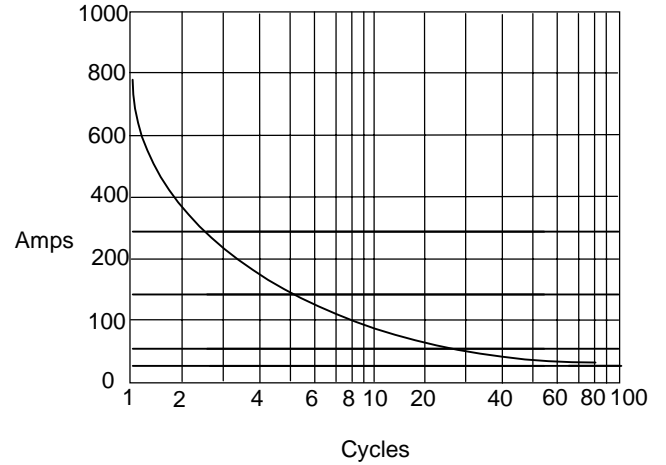
**MUR20040CT THRU MUR20060CTR**

Figure 4  
Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - MicroAmperes versus  
Percent Of Rated Peak Reverse Voltage - Volts

Figure 5  
Peak Forward Surge Current



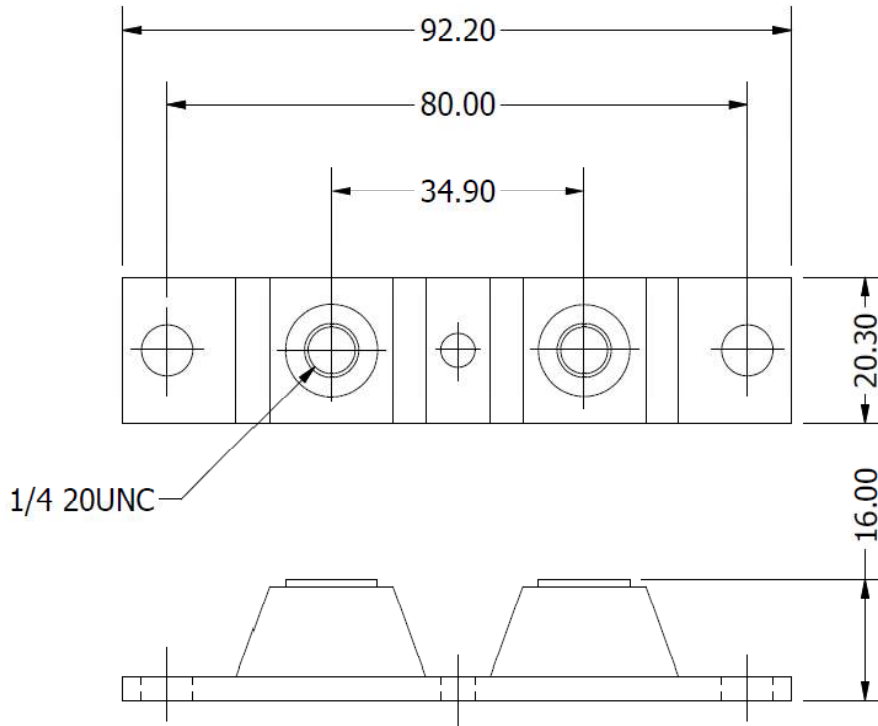
Peak Forward Surge Current - Amperes versus  
Number Of Cycles At 60Hz - Cycles

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## MUR20040CT THRU MUR20060CTR

### Package Outline



ALL DIMENSIONS IN MM

### Ordering Table

MUR	200	40	CT
1	2	3	4

- 1 – Device Type
  - > MUR = Dual Diode Recovery Module
- 2 – Current Rating =  $I_{F(AV)}$
- 3 – Voltage = code x 10 =  $V_{RRM}$
- 4 – Polarity
  - > CT = Normal (Cathode to Base)
  - > CTR = Reverse (Anode to Base)