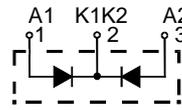


# MUR1660CT

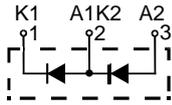
## Ultra Fast Recovery Diodes



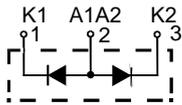
**MUR1660CT**  
(Common Cathode)



**MUR1660DT**  
(Phase Leg)

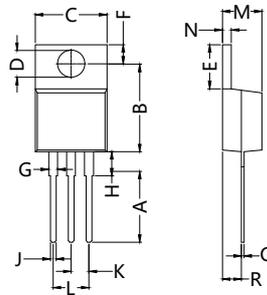


**MUR1660AT**  
(Common Anode)



A=Anode, K=Cathode, TAB=Connection Pad

### Dimensions TO-220AB



Dim.	Millimeter	
	Min.	Max.
A	12.70	13.97
B	14.73	16.00
C	9.91	10.66
ØD	3.54	4.08
E	5.85	6.85
F	2.54	3.18
G	1.15	1.65
H	2.79	5.84
J	0.64	1.01
K	2.45BSC	
L	5.05BSC	
M	4.32	4.82
N	1.14	1.39
Q	0.35	0.56
R	2.29	2.79

	VRRM	VRWM	VDC
	V	V	V
MUR1660CT	600	420	600

Symbol	Characteristics	Maximum Ratings	Unit
$I_{(AV)}$	Maximum Average Forward Rectified Current @ $T_c=100^\circ\text{C}$	16	A
$I_{FSM}$	Peak Forward Surge Current 8.3ms Single Half-Sine-Wave Superimposed On Rated Load (JEDEC METHOD)	125	A
$V_F$	Maximum Forward Voltage At 8.0A DC	1.5	V
$I_R$	Maximum DC Reverse Current @ $T_J=25^\circ\text{C}$ At Rated DC Blocking Voltage @ $T_J=100^\circ\text{C}$	5 500	$\mu\text{A}$
$C_J$	Typical Junction Capacitance Per Element (Note 1)	80	pF
$T_{RR}$	Maximum Reverse Recovery Time (Note 2)	50	ns
$R_{\theta JC}$	Typical Thermal Resistance (Note 3)	1.5	$^\circ\text{C/W}$
$T_J, T_{STG}$	Operating And Storage Temperature Range	-55 to +150	$^\circ\text{C}$

NOTES: 1. Measured At 1.0MHz And Applied Reverse Voltage of 4.0V DC.  
2. Reverse Recovery Test Conditions:  $I_F=0.5\text{A}$ ,  $I_R=1.0\text{A}$ ,  $I_{RR}=0.25\text{A}$ .  
3. Thermal Resistance Junction To Case.



### FEATURES

- \* Glass passivated chip
- \* Superfast switching time for high efficiency
- \* Low forward voltage drop and high current capability
- \* Low reverse leakage current
- \* High surge capacity
- \* RoHS compliance

### MECHANICAL DATA

- \* Case: TO-220AB molded plastic
- \* Polarity: As marked on the body
- \* Weight: 2 grams
- \* Mounting position: Any

**Sirectifier®**

# MUR1660CT

## Ultra Fast Recovery Diodes

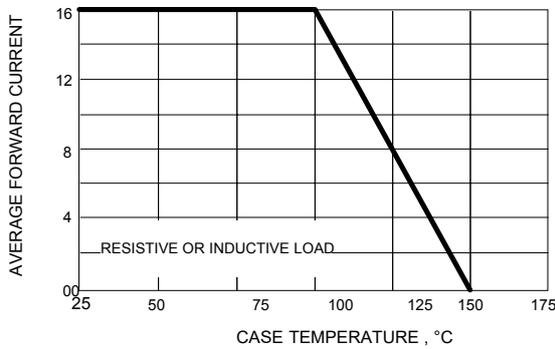


FIG.1 - FORWARD CURRENT DERATING CURVE

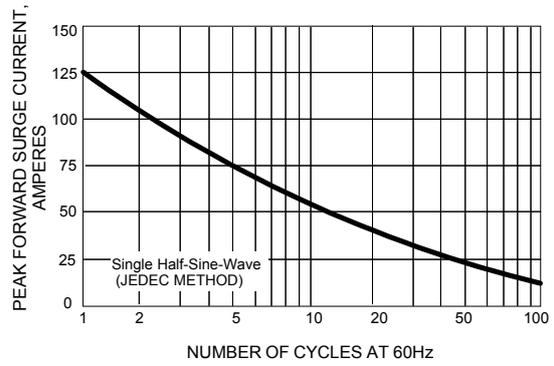


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

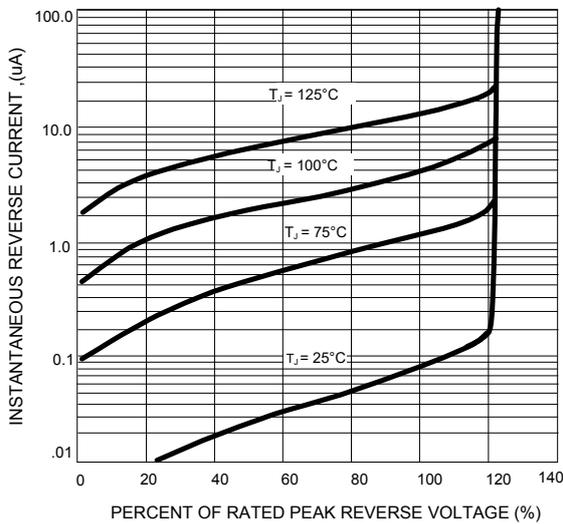


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

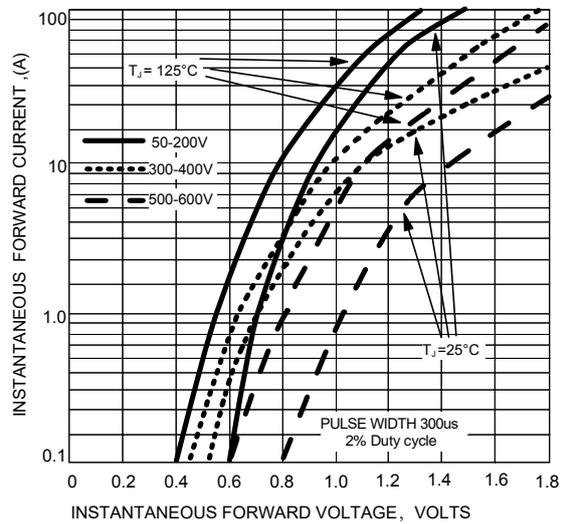


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

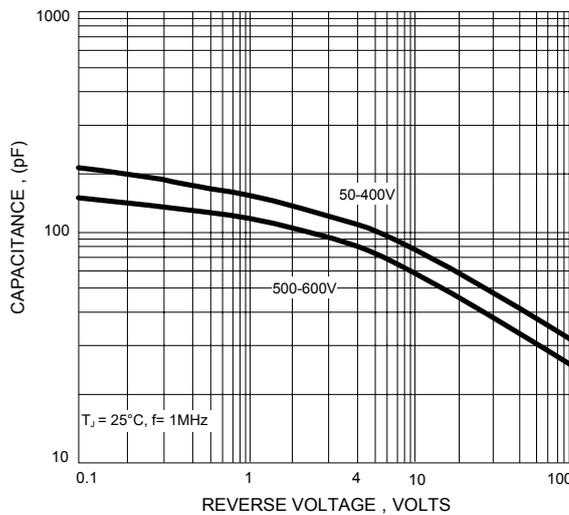
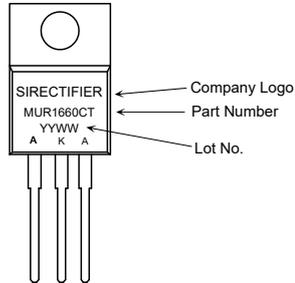


FIG.5 - TYPICAL JUNCTION CAPACITANCE

# MUR1660CT

## Ultra Fast Recovery Diodes

### Marking



### Ordering Information

Part Number	Package	Shipping	Marking Code
MUR1660CT	TO-220AB	50pcs / Tube	MUR1660CT