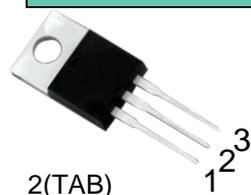
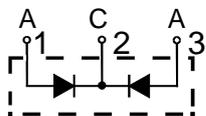


# MUR2040C(A/D)T thru MUR2060C(A/D)T

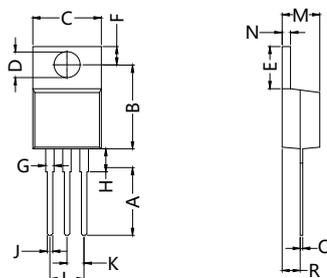
## Ultra Fast Recovery Diodes



**MUR20\*\*CT**

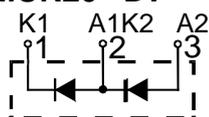


**Dimensions TO-220AB**

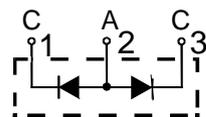


Dim.	Millimeter	
	Min.	Max.
A	12.70	13.97
B	14.73	16.00
C	9.91	10.66
ØD	3.54	4.08
E	5.85	6.85
F	2.54	3.18
G	1.15	1.65
H	2.79	5.84
J	0.64	1.01
K	2.45BSC	
L	5.05BSC	
M	4.32	4.82
N	1.14	1.39
Q	0.35	0.56
R	2.29	2.79

**MUR20\*\*DT**



**MUR20\*\*AT**



A=Anode, C=Cathode, TAB=Cathode

	V <sub>RRM</sub>	V <sub>RWM</sub>	V <sub>DC</sub>
	V	V	V
MUR2040C(A/D)T	400	280	400
MUR2060C(A/D)T	600	420	600

Symbol	Characteristics	Maximum Ratings	Unit
I <sub>(AV)</sub>	Maximum Average Forward Rectified Current @T <sub>c</sub> =95°C	20	A
I <sub>FSM</sub>	Peak Forward Surge Current 8.3ms Single Half-Sine-Wave Superimposed On Rated Load (JEDEC METHOD)	125	A
V <sub>F</sub>	Maximum Forward Voltage At Pulse Width=300us 2% Duty Cycle I <sub>F</sub> =10A @T <sub>J</sub> =25°C I <sub>F</sub> =10A @T <sub>J</sub> =125°C I <sub>F</sub> =20A @T <sub>J</sub> =25°C I <sub>F</sub> =20A @T <sub>J</sub> =125°C	1.55 1.50 1.75 1.70	V
I <sub>R</sub>	Maximum DC Reverse Current At Rated DC Blocking Voltage @T <sub>J</sub> =25°C @T <sub>J</sub> =100°C	10 200	uA
C <sub>J</sub>	Typical Junction Capacitance Per Element (Note 1)	150	pF
T <sub>RR</sub>	Maximum Reverse Recovery Time (Note 2)	55	ns
R <sub>θJC</sub>	Typical Thermal Resistance (Note 3)	1.5	°C/W
T <sub>J</sub> , T <sub>STG</sub>	Operating And Storage Temperature Range	-55 to +150	°C

NOTES: 1. Measured At 1.0MHz And Applied Reverse Voltage Of 4.0V DC.  
2. Reverse Recovery Test Conditions: I<sub>F</sub>=0.5A, I<sub>R</sub>=1.0A, I<sub>RR</sub>=0.25A.  
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 compliant

### MECHANICAL DATA

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

# MUR2040C(A/D)T thru MUR2060C(A/D)T

## Ultra Fast Recovery Diodes

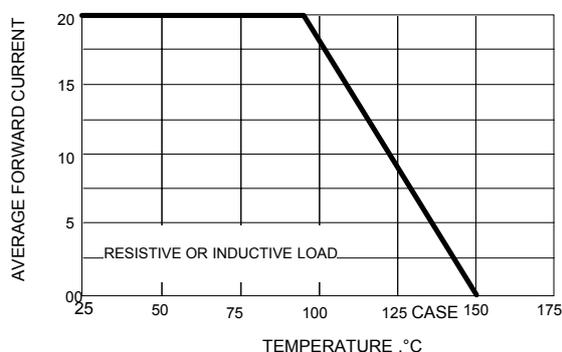


FIG.1 - FORWARD CURRENT DERATING CURVE

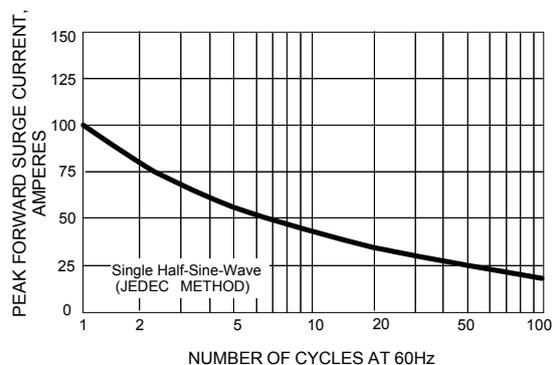


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

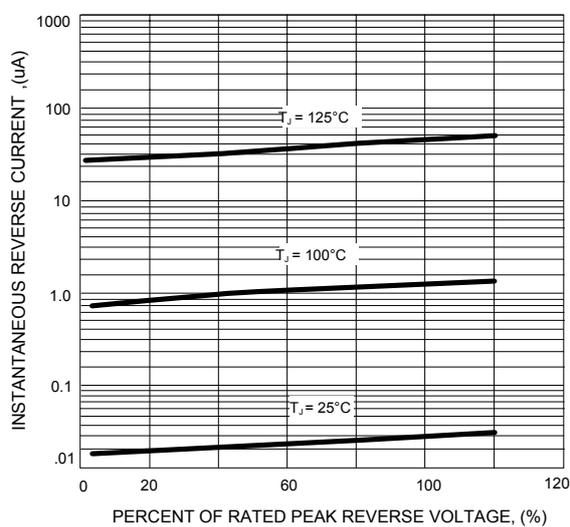


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

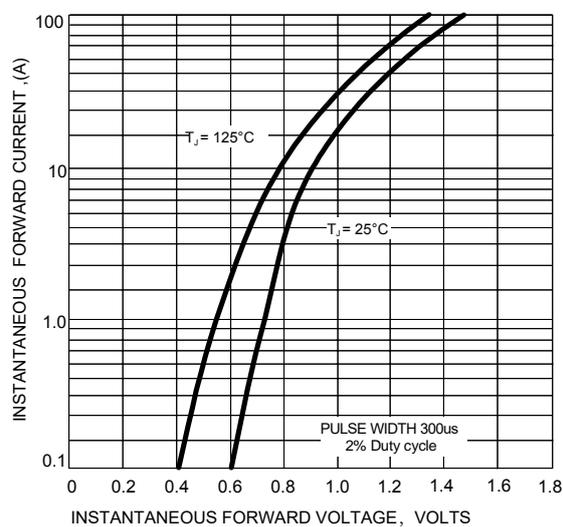


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

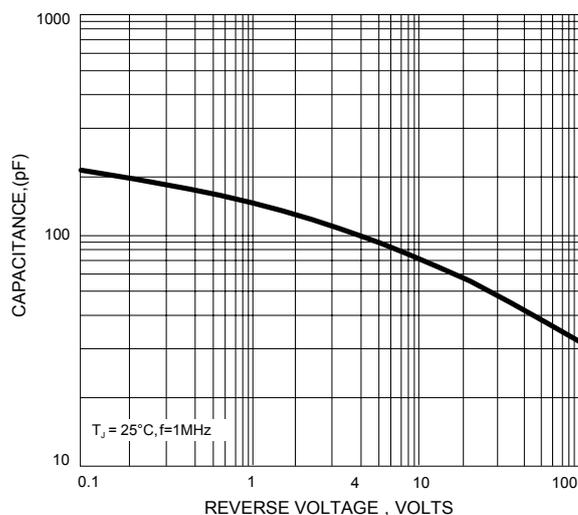


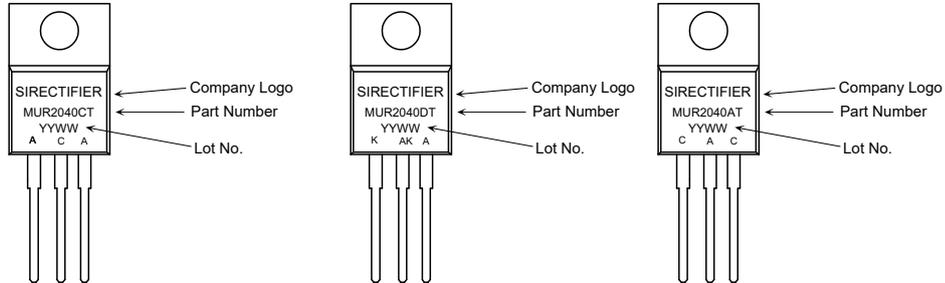
FIG.5 - TYPICAL JUNCTION CAPACITANCE



# MUR2040C(A/D)T thru MUR2060C(A/D)T

## Ultra Fast Recovery Diodes

### Marking



### Ordering Information

Part Number	Package	Shipping	Marking Code
MUR2040CT	TO-220AB	50pcs / Tube	MUR2040CT
MUR2040DT	TO-220AB	50pcs / Tube	MUR2040DT
MUR2040AT	TO-220AB	50pcs / Tube	MUR2040AT