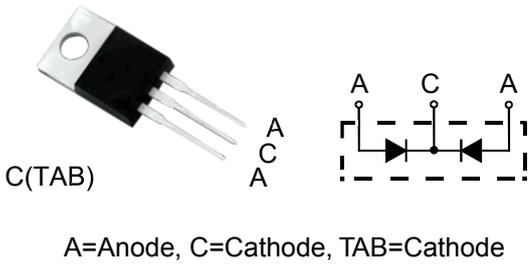
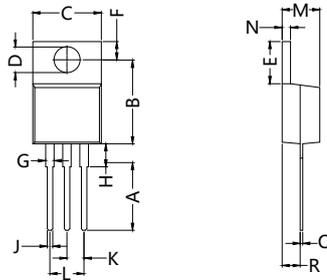


MUR1020CT

Ultra Fast Recovery Diodes



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

	V _{RRM} V	V _{RMS} V	V _{DC} V
MUR1020CT	200	140	200

Symbol	Characteristics	Maximum Ratings	Unit
I _(AV)	Maximum Average Forward Rectified Current @T _C =125°C	10	A
I _{FSM}	Non Repetitive Peak Forward Surge Current Per Diode Sinusoidal (JEDEC METHOD) T _P =10ms T _P =8.3ms	50 55	A
V _F	Maximum Forward Voltage Pulse Width=300us Duty Cycle I _F =5A @T _J =25°C I _F =5A @T _J =125°C I _F =10A @T _J =25°C I _F =10A @T _J =125°C	0.975 0.925 1.25 1.20	V
I _R	Maximum DC Reverse Current At Rated DC Blocking Voltage @T _J =25°C @T _J =100°C	5 100	uA
C _J	Typical Junction Capacitance Per Element (Note 1)	80	pF
T _{RR}	Maximum Reverse Recovery Time (Note 2)	30	ns
R _{θJC}	Typical Thermal Resistance	4.0	°C/W
T _J , T _{STG}	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_F=0.5A, I_R=1.0A, I_{RR}=0.25A.

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: 0.08 ounces, 2.24 grams
- * Mounting position: Any



Sirectifier®

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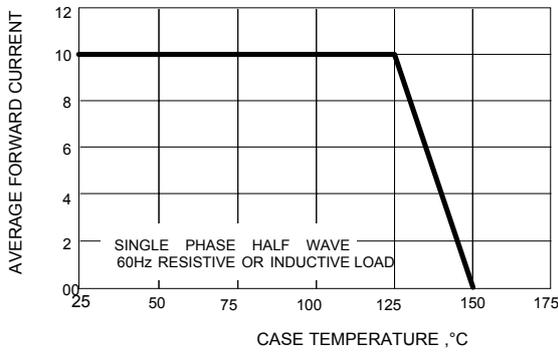


FIG. 1 - FORWARD CURRENT DERATING CURVE

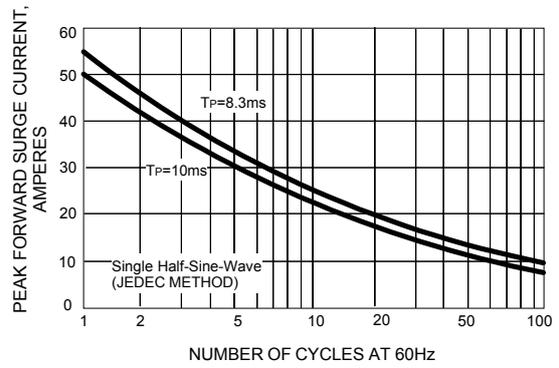


FIG. 2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

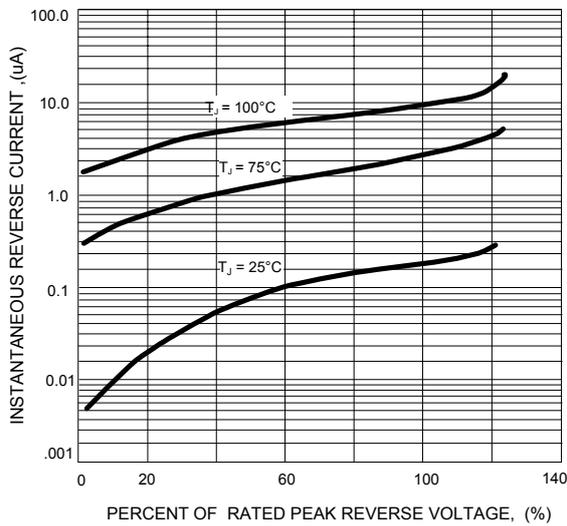


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

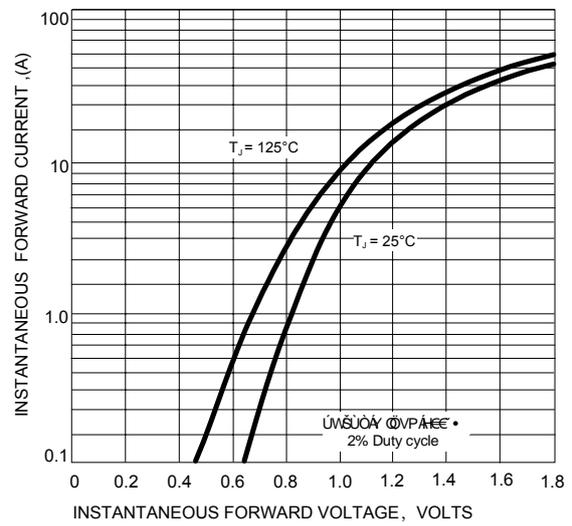


FIG. 4 - TYPICAL FORWARD CHARACTERISTICS

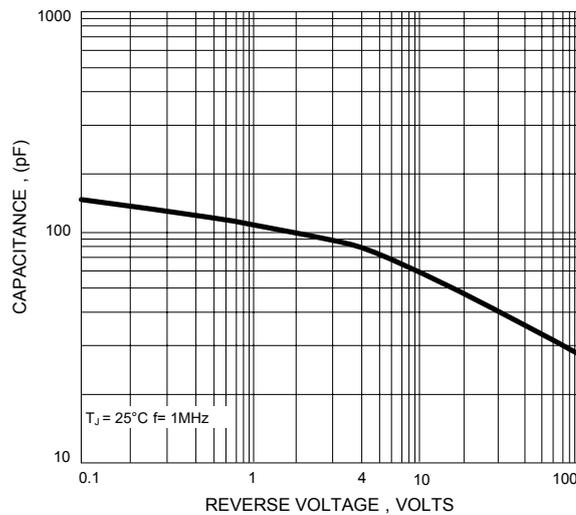
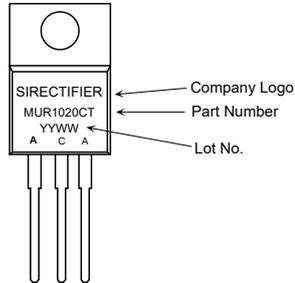


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

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Ultra Fast Recovery Diodes

Marking



Ordering Information

Part Number	Package	Shipping	Marking Code
MUR1020CT	TO-220AB	50pcs / Tube	MUR1020CT