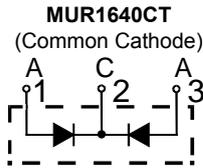
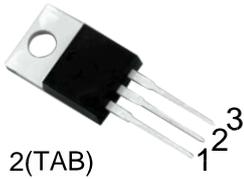
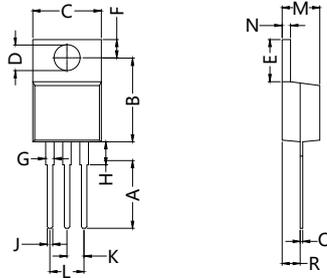


MUR1640CT thru MUR1660CT

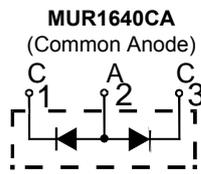
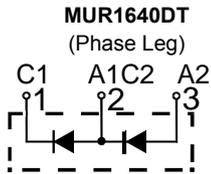
Ultra Fast Recovery Diodes



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



A=Anode, C=Cathode, TAB=Cathode

	VRRM	VRWM	VDC
	V	V	V
MUR1640CT(CA/DT)	400	280	400
MUR1660CT(CA/DT)	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	μA
C_J	Typical Junction Capacitance Per Element (Note 1)	80	pF
T_{RR}	Maximum Reverse Recovery Time (Note 2)	45	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 compliant

MECHANICAL DATA

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

MUR1640CT thru MUR1660CT

Ultra Fast Recovery Diodes

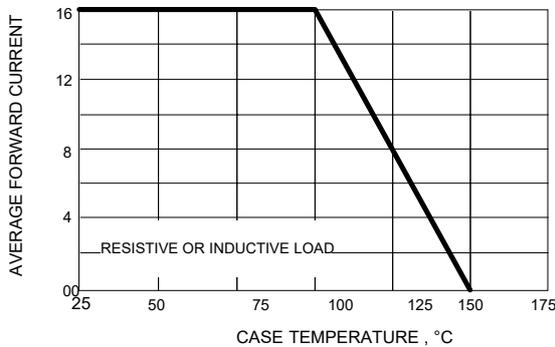


FIG. 1 - FORWARD CURRENT DERATING CURVE

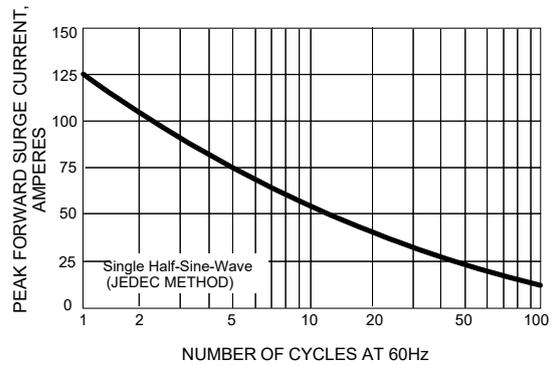


FIG. 2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

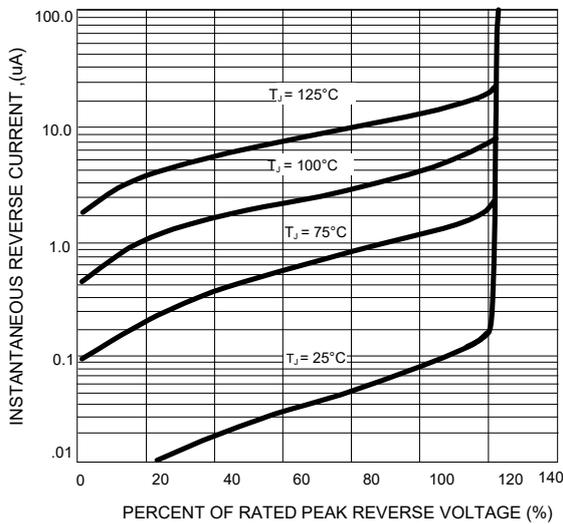


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

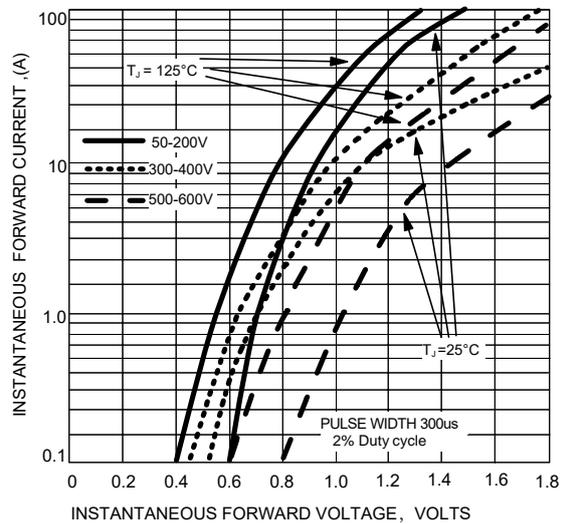


FIG. 4 - TYPICAL FORWARD CHARACTERISTICS

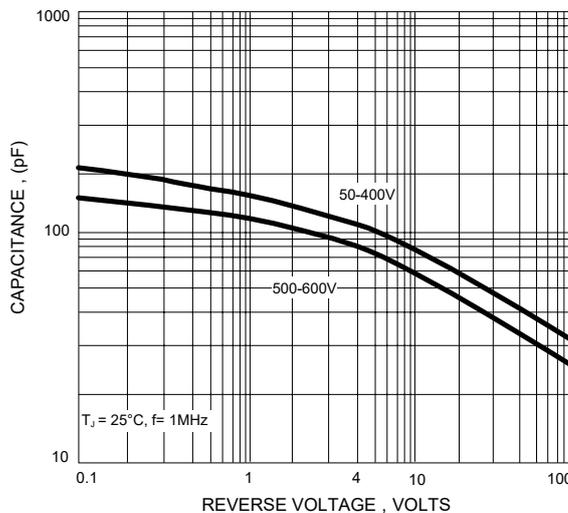
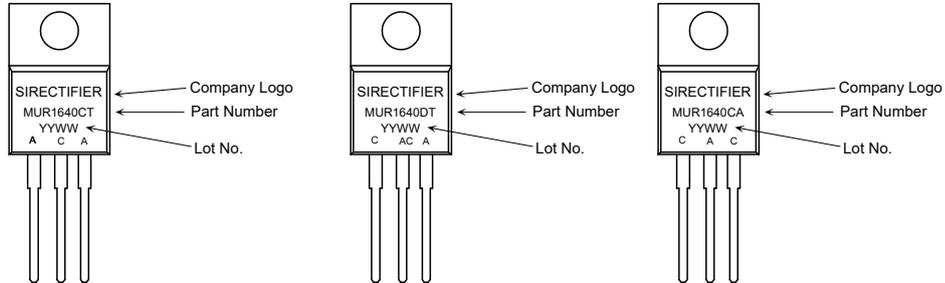


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

MUR1640CT thru MUR1660CT

Ultra Fast Recovery Diodes

Marking



Ordering Information

Part Number	Package	Shipping	Marking Code
MUR1640CT	TO-220AB	50pcs / Tube	MUR1640CT
MUR1640DT	TO-220AB	50pcs / Tube	MUR1660DT
MUR1640CA	TO-220AB	50pcs / Tube	MUR1640CA