CHEN RUI KE
辰 瑞 克

MUR3020CT THRU MUR3060CT

SUPER FAST RECTIFIERS

Reverse Voltage - 200 to 600 Volts Forward Current - 30.0 Amperes

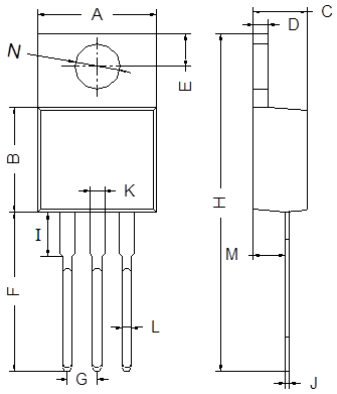
FEATURES

Low cost.
Low leakage.
Low forward voltage drop.
High current capability.
Easily cleaned with Alcohol,Isopropanol and Similar solvents.
The plastic material carries U/L recognition 94V-0

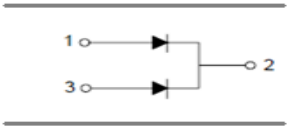
MECHANICAL DATA

Case: TO-220AB
Molding Compound: UL Flammability Classification Rating 94V-0
Terminals: Matte tin-plated leads; solderability-per MIL-STD-202, Method 208

TO-220AB



TO-220AB		
Dim	Min	Max
A	9.80	10.30
B	8.30	8.90
C	4.37	4.77
D	1.10	1.45
E	2.62	2.87
F	13.46	14.22
G	2.41	2.67
H	28.40	29.16
I	3.55	4.05
J	0.35	0.58
K	1.20	1.32
L	0.68	0.94
M	2.40	2.60
N	3.71	3.91
All Dimensions in mm		



MAXIMUM RATING operating temperature range applies unless otherwise specified

Symbol	Parameter	MUR3020 CT	MUR3030 CT	MUR3040 CT	MUR3060 CT	Unit
V_{RRM}	Rcurrent Peak Reverse Voltage	200	300	400	600	V
V_{RMS}	RMS Voltage	140	210	280	420	V
V_{DC}	DC Blocking Voltage	200	300	400	600	V
$I_{F(AV)}$	Average Forward Rectified Current @T_A=100℃	30.0				A
I_{FSM}	Peak Forward Surge Current 8.3ms Single Half-sine-wave superimposed on Rsted Load	300				A
I_R	Reverse Current $V_R=V_{RRM}$, T_A=25℃ $V_R=V_{RRM}$, T_A=150℃	5.0 250	10 500			μA
V_F	Forward Voltage I_F=15A	1.0	130		1.70	V
t_{rr}	Reverse Recovery Time I_F=0.5A,I_R=1A,I_{rr}=0.25A	35				ns
$R_{\theta JC}$	Typical Thermal Resistance Junction to Case	2.5				℃/W
T_j T_{stg}	Operating Junction and StorageTemperature Range	-55 to +150				℃

Note1：Pulse test:pulse width=300μs,duty cycl≤2.0%

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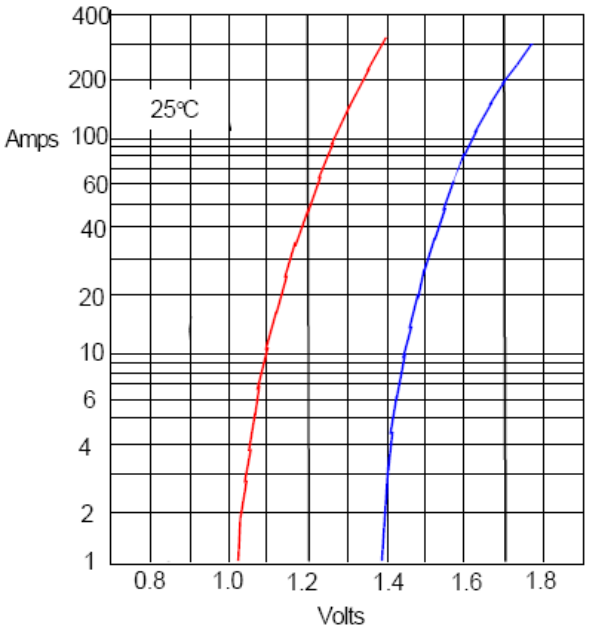
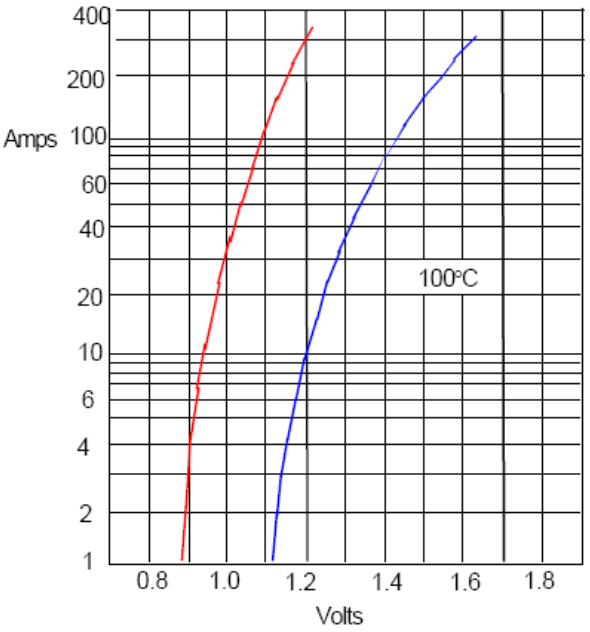
TYPICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

Figure 1
Typical Forward Characteristics @ T_J = 25℃



Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Typical Forward Characteristics @ T_J = 100℃



Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts