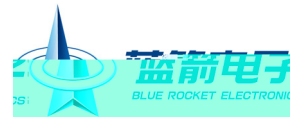


BRMUR1060AC

Rev.G Jan.-2019



DATA SHEET

WR0553DF

Ultrafast Recovery Diode in a TO-220AC Plastic Package.

Silicon epitaxial process to produce ultrafast recovery diode with low reverse leakage current and high reliability.

For high frequency, high voltage, high current rectifier diode, freewheeling diode.



PIN1 2

/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	600	V
RMS Voltage	V_{RMS}	420	V
DC Blocking Voltage	V_{DC}	600	V
Average Forward Current	I_F	1×10	A
Peak forward surge current	I_{FSM}	100	A
Typical Thermal Resistance Junction to Case	$R_{\theta Jc}$	1.5	$^{\circ}C/W$
Junction Temperature Range	T_J	150	$^{\circ}C$
Storage Temperature Range	T_{stg}	-55 150	$^{\circ}C$

/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse Voltage	V_R	$I_R=1mA$	600			V
Forward Voltage	V_F	$I_F=2.0A$ $T_C=25$		1.0	1.2	V
		$I_F=2.0A$ $T_C=150$		0.73	1.0	
		$I_F=10A$ $T_C=25$		1.3	1.5	
		$I_F=10A$ $T_C=150$		1.1	1.2	
Instantaneous Reverse Current(Note1)	I_R	$V_R=600V$ $T_a=25$			10	μA
		$V_R=480V$ $T_a=150$			100	
		$V_R=600V$ $T_a=150$			500	
Reverse Recovery Time	t_{rr}	$I_F=0.5A$ $I_{RR}=0.25A$ $I_R=1.0A$			50	ns

2Notes

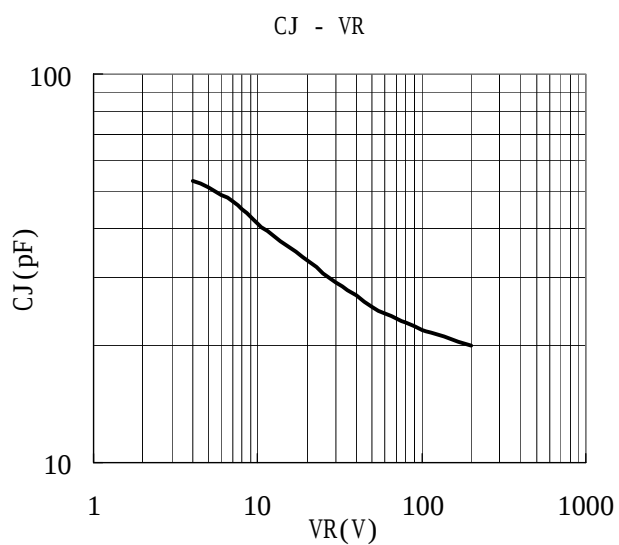
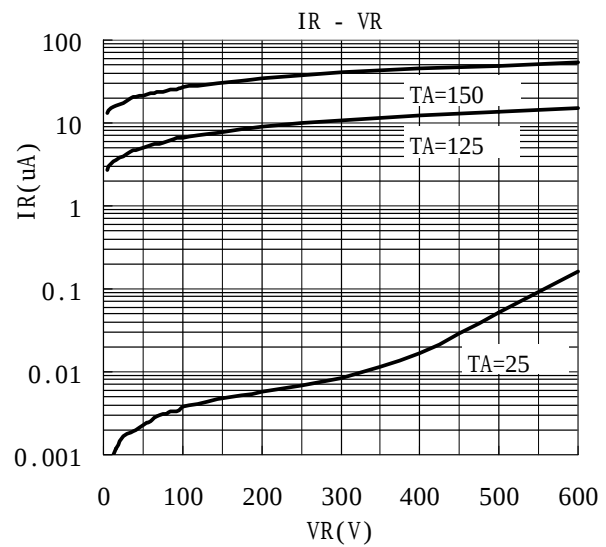
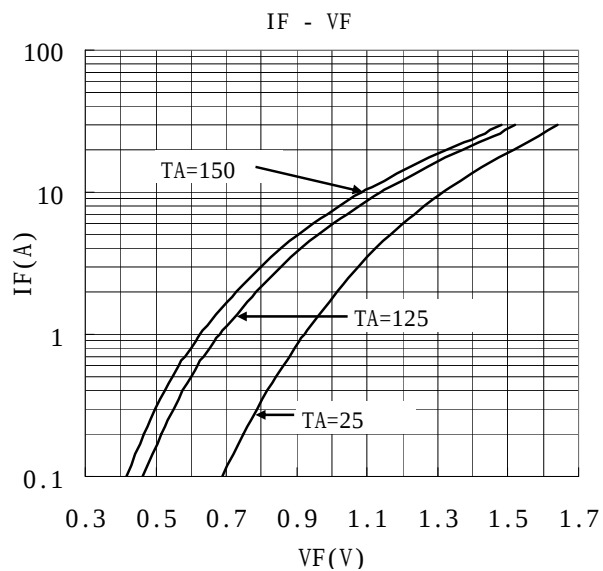
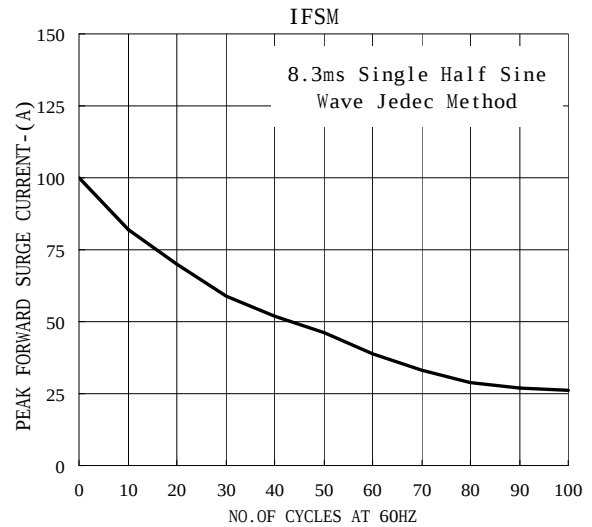
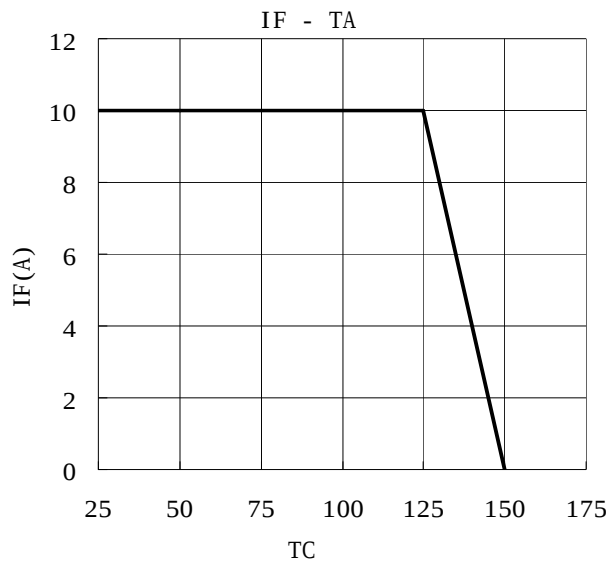
1.
effect.

2Short duration pulse test used to minimize self-heating

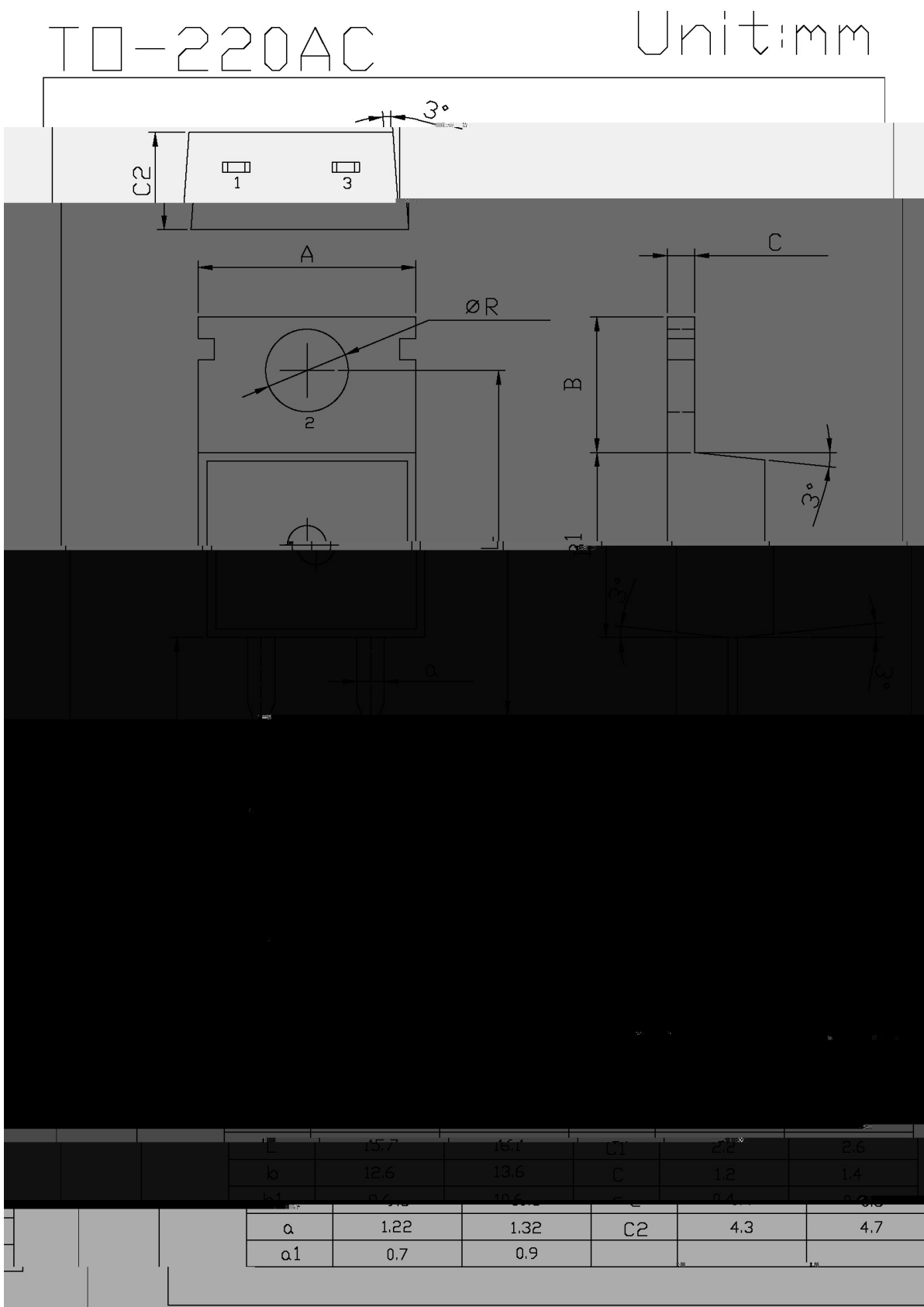
2.
single chip

2 Unless otherwise noted, values for the parameters of a

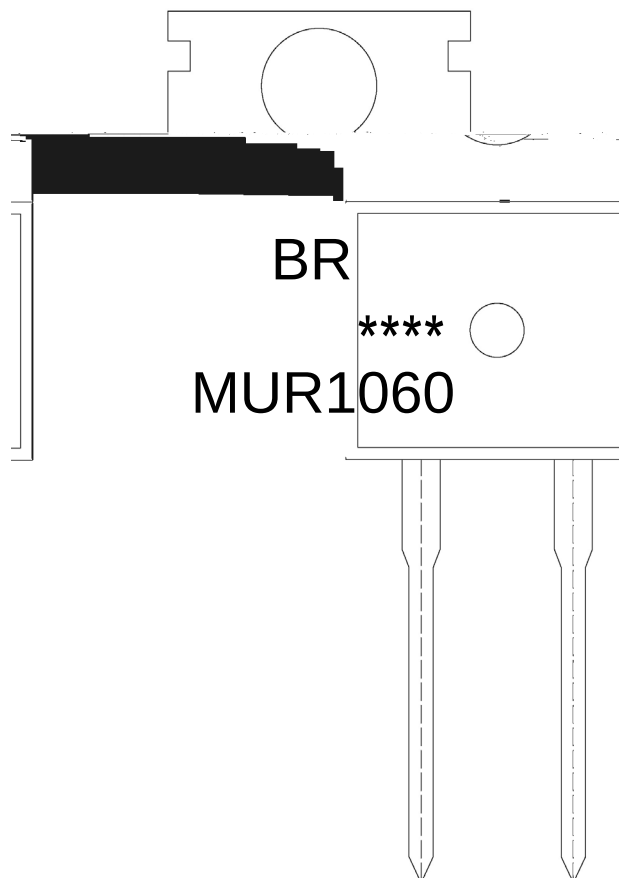
/ Electrical Characteristic Curve



/ Package Dimensions



/ Marking Instructions



EU

P XU4393

Note:

BR:

Company Code

MUR1060

Product Type.

****:

Lot No. Code, code change with Lot No.

