MUR2020CT

Rev.G Oct.-2018

蓝箭电子
BLUE ROCKET ELECTRONICS

DATA SHEET

/ Descriptions

TO-220

Ultrafast Recovery Diode in a TO-220 Plastic Package.

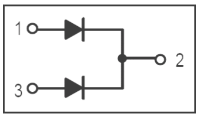
/ Features

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

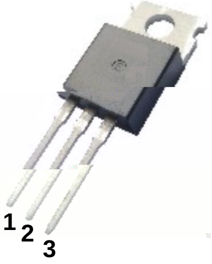
/ Applications

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

/ Equivalent Circuit



/ Pinning



PIN1	Anode	PIN 2	Cathode	PIN 3	Anode

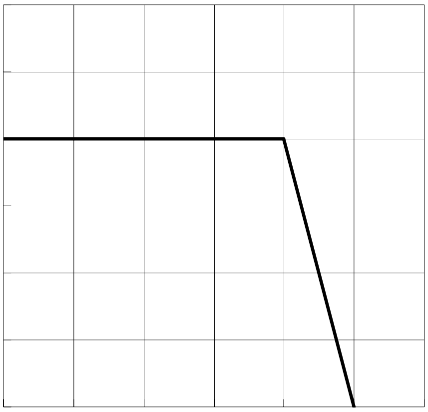
/ h_{FE} Classifications & Marking

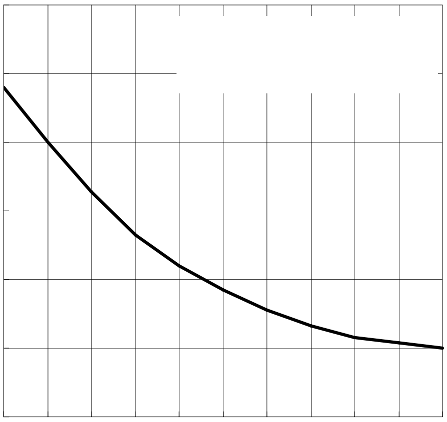
See Marking Instructions

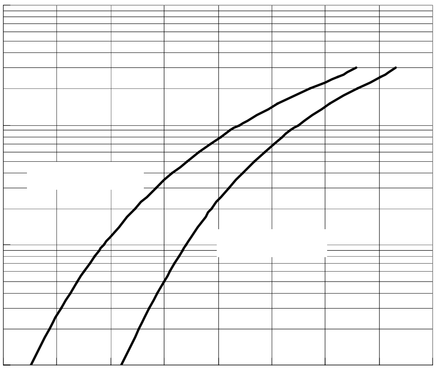
Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	200	V
RMS Voltage	V_{RMS}	140	V
DC Blocking Voltage	V_{DC}	200	V
Average Forward Current	I_F	2 10	A
Non Repetitive Peak Surge Current	I_{FSM}	120	A
Thermal Resistance Junction to Case	$R_{\theta Jc}$	2.8	/W
Operating and Storage Temperature Range	T_j T_{stg}	-55 150	

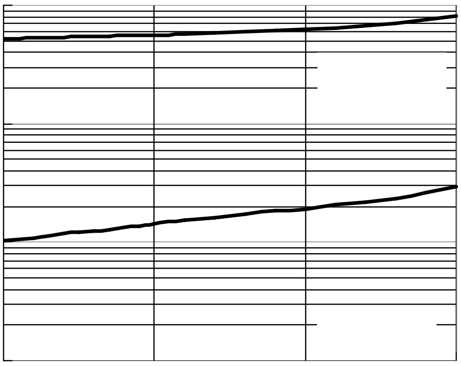
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage	V_F	I_F=2A Tc=25		0.79		V
		I_F=2A Tc=125				

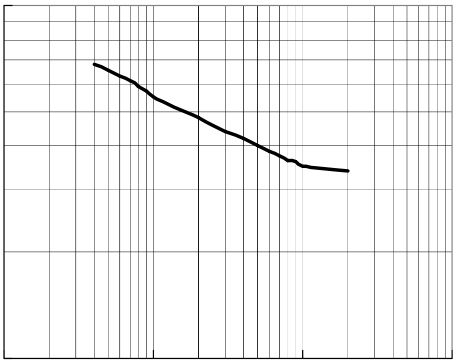
/ Electrical Characteristic Curve



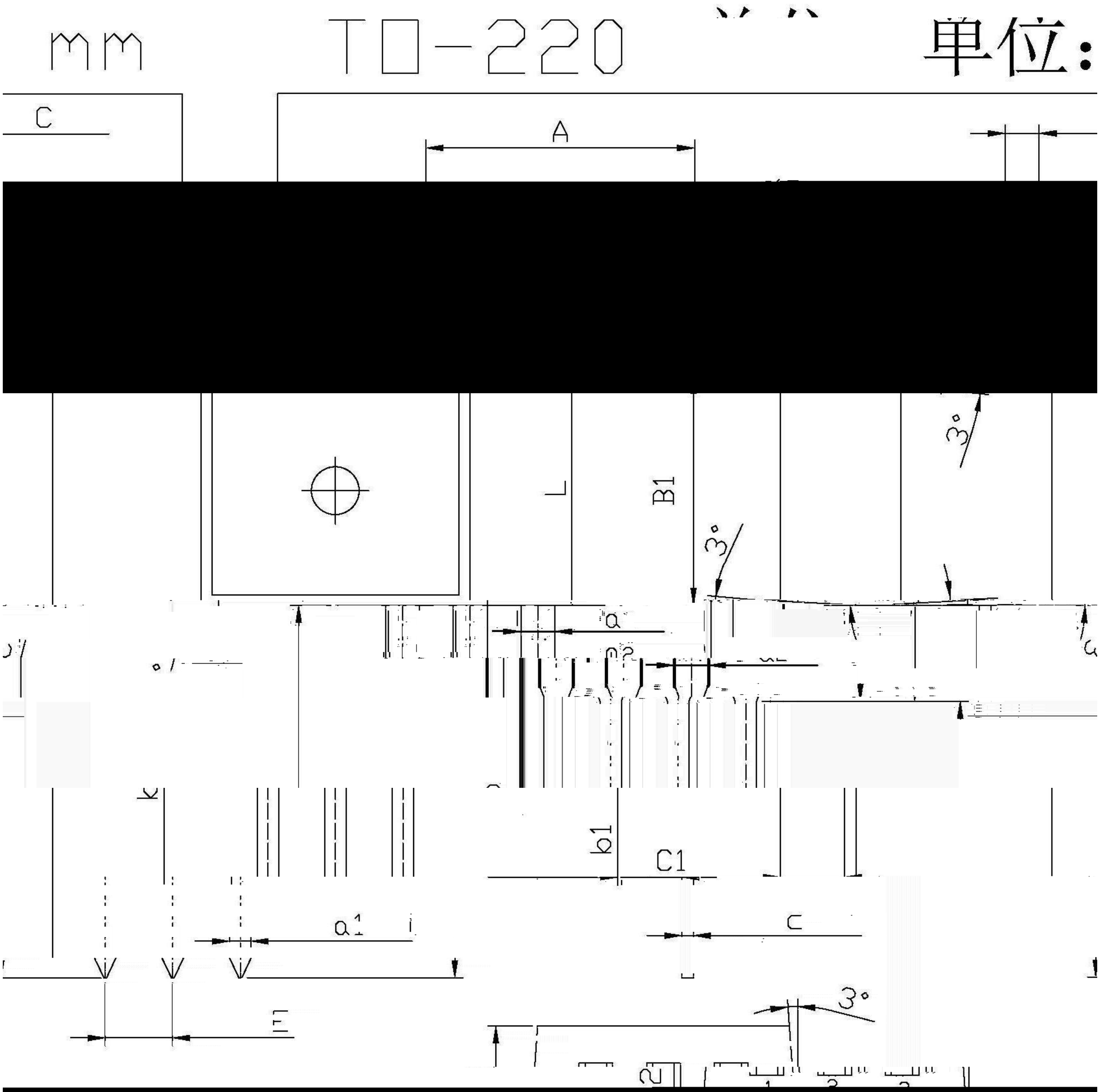








/ Package Dimensions

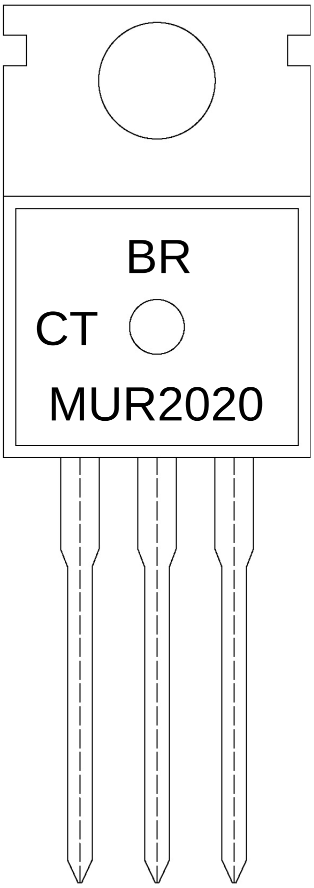


[redacted]

[redacted]

Symbol	Dimensions in Millimeters		Symbol	Dimensions in Millimeters	
	Min	Max		Min	Max
A	9.8	10.2	C	1.2	1.4
R	3.56	3.64	B	6.3	6.7
B1	9.0	9.4	L	15.7	16
C1	2.2	2.6	b	12.6	[illegible]
a1	0.7	0.9	b1	9.6	[illegible]
c	0.4	0.6	a	1.22	1.32
[illegible]	1.3	1.7	E	3.31	[illegible]
			a2	1.25	[illegible]

/ Marking Instructions



BR

MUR2020

CT:

****

Note:

BR:	Company Code
MUR2020	Product Type.
CT:	Internal Structure
****:	Lot No. Code, code change with Lot No.

(   ) / Temperature Profile for Dip Soldering(Pb-Free)

	Note:
1 25 150 60 90sec;	1.Preheating:25~150 , Time:60~90sec.
2 255±5 5±0.5sec;	2.Peak Temp.:255±5 , Duration:5±0.5sec.
3 2 10 /sec.	3. Cooling Speed: 2~10 /sec.

/ Resistance to Soldering Heat Test Conditions

270±5 10±1 sec. Temp.:270±5 Time:10±1 sec

/ Packaging SPEC.

/ BULK

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm^3)		
	只 袋	袋 盒	只 盒	盒 箱	只 箱	袋	盒	箱

/ TUBE

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm^3)		
	只 套管	套管 盒	只 盒	盒 箱	只 箱	套管	盒	箱

/ Notices