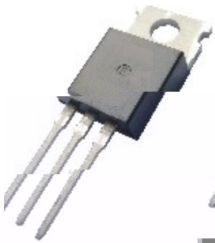
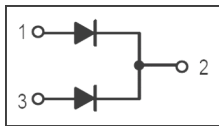


TO-220

Ultrafast Recovery Diode in a TO-220 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 Anode PIN 2 Cathode PIN 3 Anode

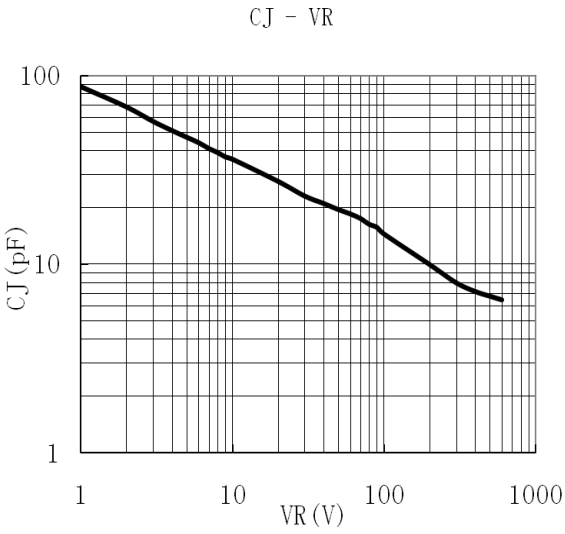
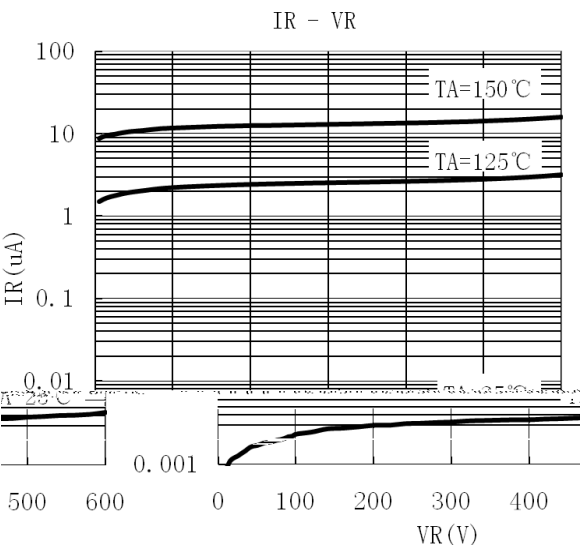
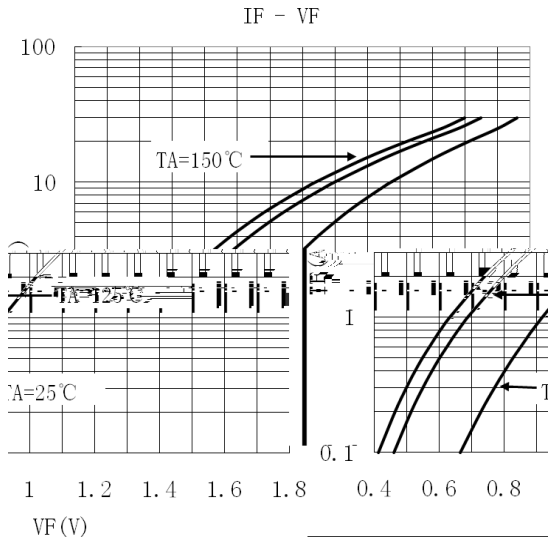
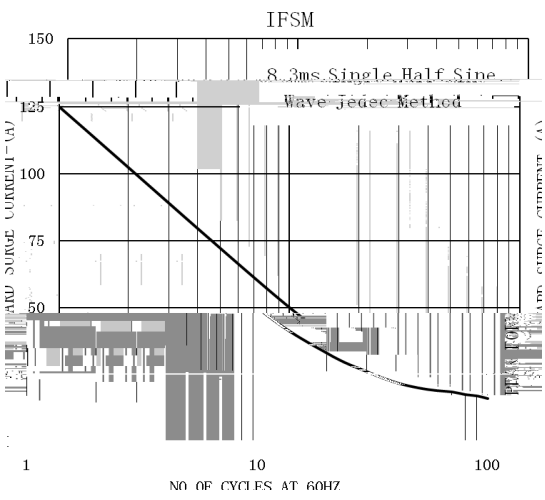
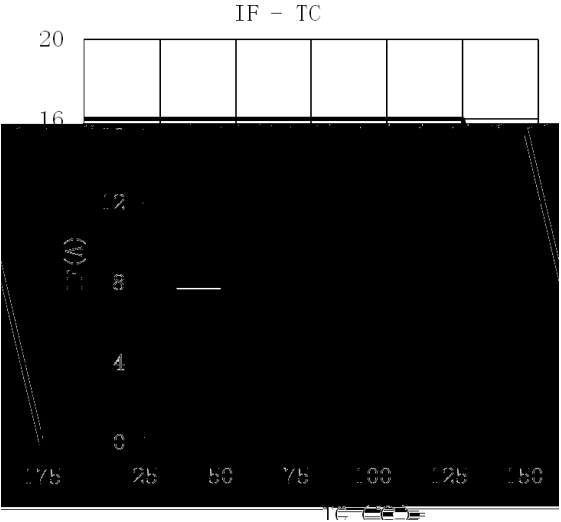
See Marking Instructions

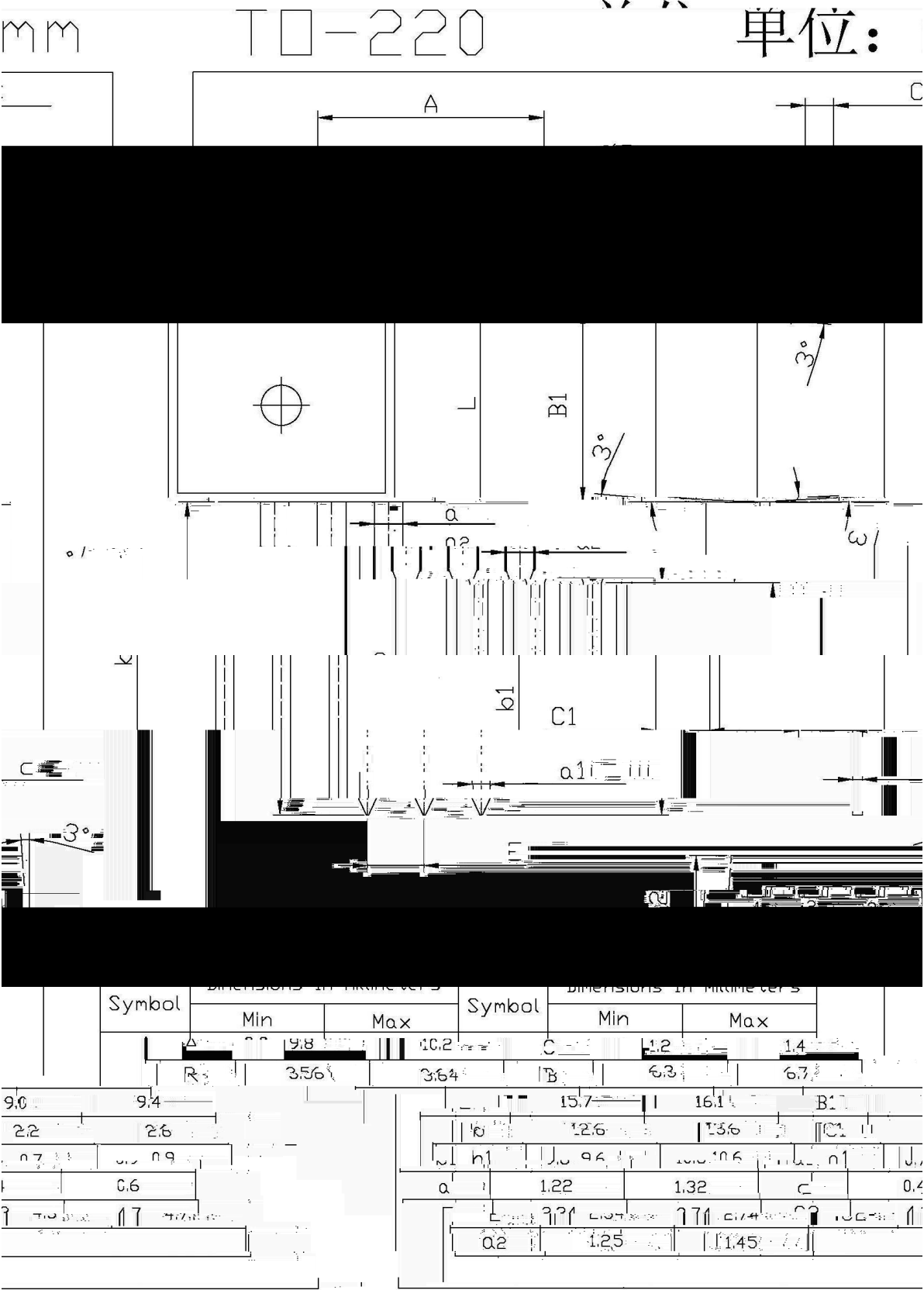
Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	600	V
RMS Voltage	V_{RMS}	420	V
DC Blocking Voltage	V_{DC}	600	V
Average Forward Current	I_F	2×8	A
Non Repetitive Peak Surge Current	I_{FSM}	125	A
Thermal Resistance Junction to Case	R_{JC}	2.5	°C/W
Operating and Storage Temperature Range	T_j T_{stg}	-55 175	°C

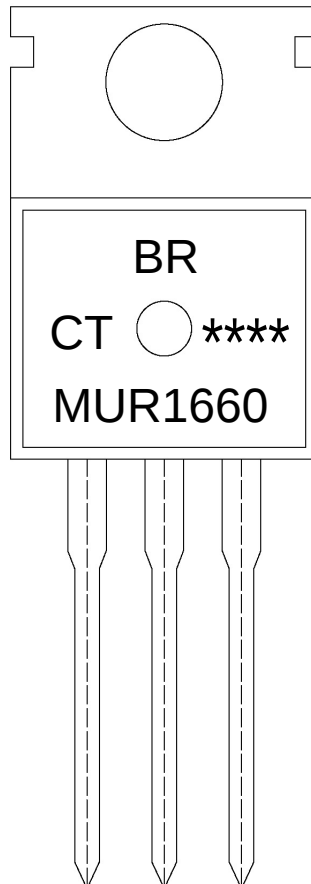
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage	V_F	$I_F=8A(T_C=25^\circ C)$			1.8	V
		$I_F=8A(T_C=150^\circ C)$		1.05	1.3	V
		$I_F=16A(T_C=125^\circ C)$			2.0	V
		$I_F=16A(T_C=150^\circ C)$		1.28	1.6	V
Instantaneous Reverse Current	I_R	$V_R=600V(T_a=25^\circ C)$			5	A
		$V_R=600V(T_a=150^\circ C)$		16	100	A
Reverse Recovery Time	t_{rr}	$I_F=0.5A$ $I_R=1.0A$ $I_{RR}=0.25A$			50	ns

/Notes

1. /Short duration pulse test used to minimize self-heating effect.
2. / Unless otherwise noted, values for the parameters of a single chip







BR

MUR1660

CT:

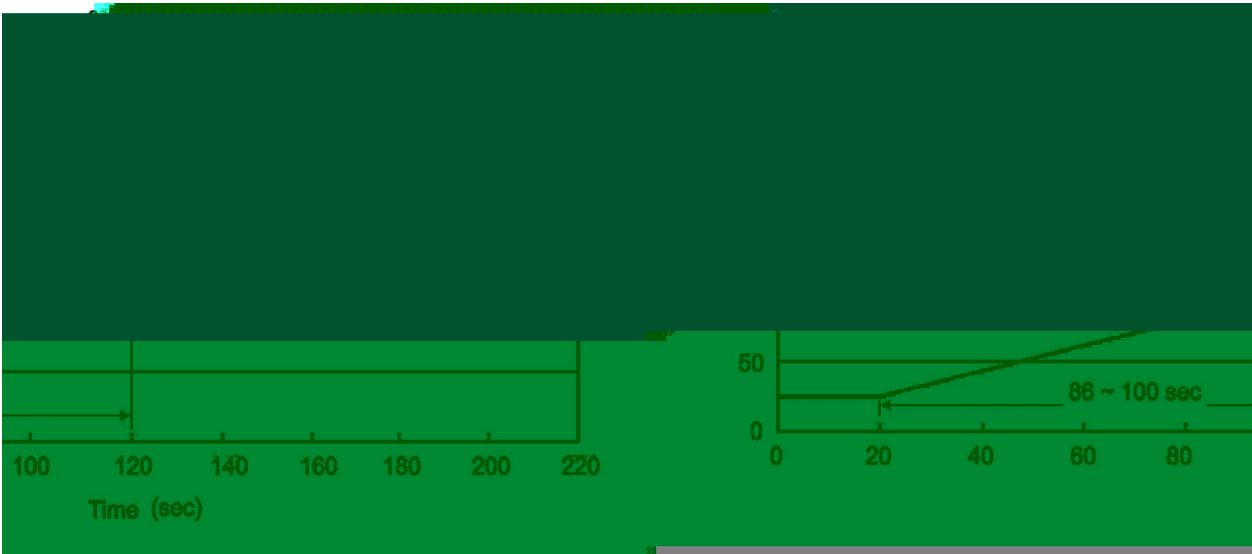
Note:

BR: Company Code

MUR1660: Product Type.

CT: Internal Structure

****: Lot No. Code, code change with Lot No.



- Note:

1. Preheating: 25~150 , Time: 60~90sec.

2. Peak Temp.: 255±5 , Duration: 5±0.5sec.

3. Cooling Speed: 2~10 /sec.
- 1

25 150

60 90sec;
- 2

255±5

5±0.5sec;
- 3

2 10

/sec.

270±5

10±1 sec.

Temp.: 270±5℃

Time: 10±1 sec

/ BULK

Package Type	Units					Dimension (unit mm ³)		
	Units/Bag /	Bags/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Bag	Inner Box	Outer Box
TO-220/F	200	10	2,000	5	10,000	135×190	237×172×102	560×245×195

/ TUBE

Package Type	Units					Dimension (unit mm ³)		
	Units/Tube /	Tubes/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Tube	Inner Box	Outer Box
TO-220/F	50	20	1,000	5	5,000	532×31.4×5.5	555×164×50	575×290×180