

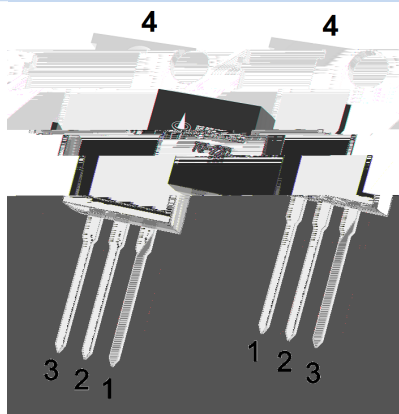
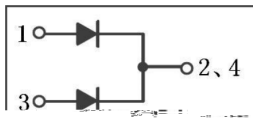
Rev.A Dec.-2024

TO-220

Fast Recovery Epi Diodes in a TO-220 Plastic Package.

High frequency operation, High surge forward current capability, HF Product.

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



PIN1 Anode PIN 2 4 Cathode PIN 3 Anode

See Marking Instructions.

Parameter	Symbol	Rating	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	600	V
Maximum RMS voltage	V_{RMS}	420	V
Maximum DC blocking Voltage	V_{DC}	600	V
Maximum Average Forward Rectified Current @ $T_c=100^{\circ}C$	$I_{F(AV)}$	10x2	A
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	125	A
Maximum Thermal Resistance Junction To Case	$R_{\theta Jc}$	4	/W
Operation Junction Temperature and Storage Temperature	T_j, T_{stg}	-40~150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage	V_F	$I_F=10A \quad T_c=25^{\circ}C$		1.35	1.5	V
		$I_F=10A \quad T_c=125^{\circ}C$			1.25	
Instantaneous Reverse Current	I_R	$V_R=600V \quad T_a=25^{\circ}C$			10	μA
		$V_R=600V \quad T_a=125^{\circ}C$			500	
Reverse Recovery Time	t_{rr}	I_F				

Fig.1 Typical Forward Current Derating Curve

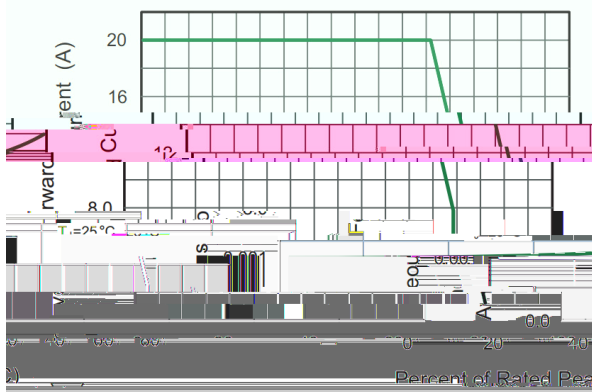


Fig.2 Typical Reverse Characteristics

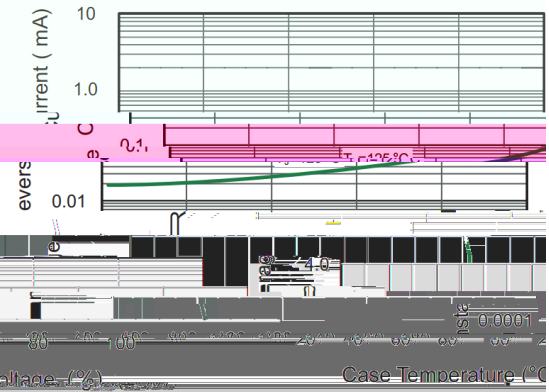


Fig.3 Typical Forward Characteristics

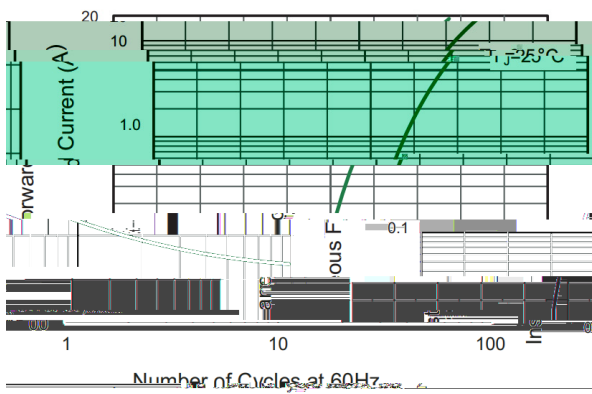
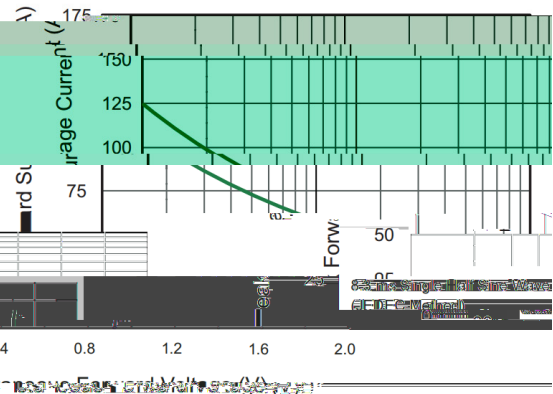
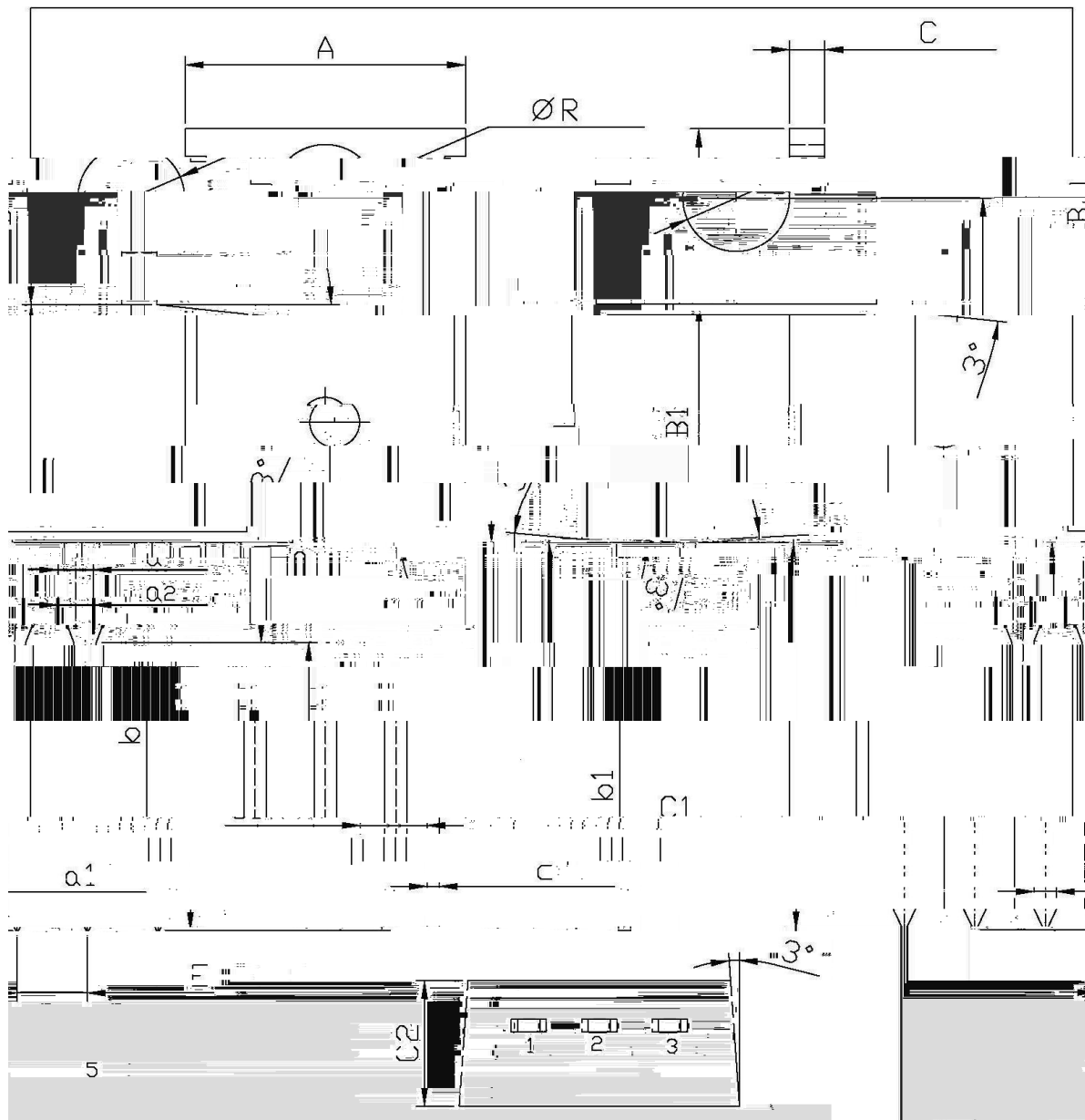


Fig.4 Maximum Non-Repetitive Peak Forward Surge Current

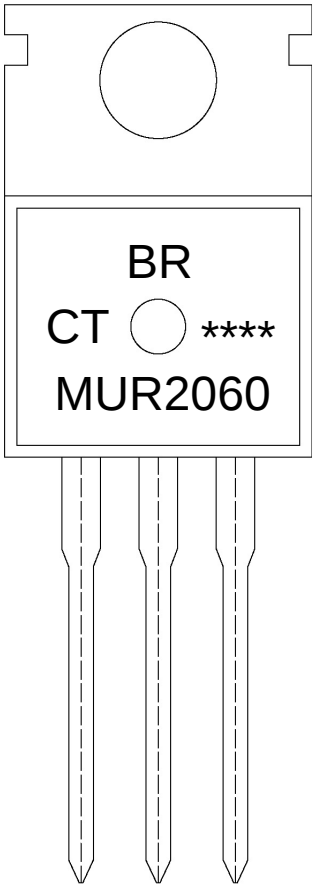


T0-220

单位: 



Dimensions In Millimeters			Dimensions In Millimeters				
Symbol		Min	Max	Symbol		Min	Max
A		9.8	10.2	C		1.2	1.4
R		3.56	3.64	B		6.3	6.7
—		15.7	16.1	B1		9.0	9.4
b		12.6	13.6	C1		2.2	2.6



BR

MUR2060

CT:

Note:

BR:

Company Code

MUR2060

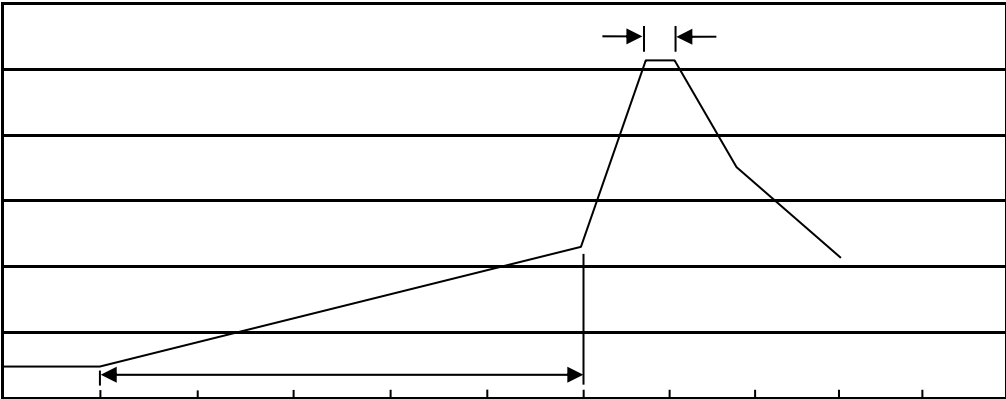
Product Type Code

CT:

Internal Structure

****:

Lot No. Code, code change with Lot No



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.

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