

/ Descriptions

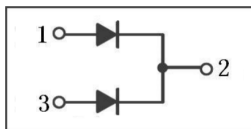
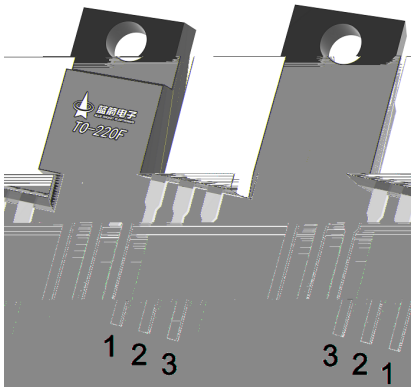
Fast Recovery Epi Diodes in a TO-220F Plastic Package.

/ Features

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

/ Applications

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

/ Equivalent Circuit**/ Pinning**

PIN1 Anode PIN 2 Cathode PIN 3 Anode

/ Marking

See Marking Instructions.

/ Absolute Maximum Ratings($T_a=25^\circ\text{C}$)

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 @ $T_c=100^\circ\text{C}$	$I_{F(AV)}$	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_{JC}	4	/W
Operation Junction Temperature and Storage Temperature	T_j, T_{stg}	-40 150	

/ Electrical Characteristics($T_a=25^\circ\text{C}$)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage	V_F	$I_F=10\text{A}$ $T_c=25^\circ\text{C}$		1.35	1.5	V
		$I_F=10\text{A}$ $T_c=125^\circ\text{C}$			1.25	
Instantaneous Reverse Current	I_R	$V_R=600\text{V}$ $T_a=25^\circ\text{C}$			10	A
		$V_R=600\text{V}$ $T_a=125^\circ\text{C}$			500	
Reverse Recovery Time	t_{rr}	$I_F=0.5\text{A}$ $I_R=1.0\text{A}$ $I_{RR}=0.25\text{A}$		35	45	ns

/ Electrical Characteristic Curve

Fig.1 TYPICAL FORWARD CURRENT DERATING CURVE

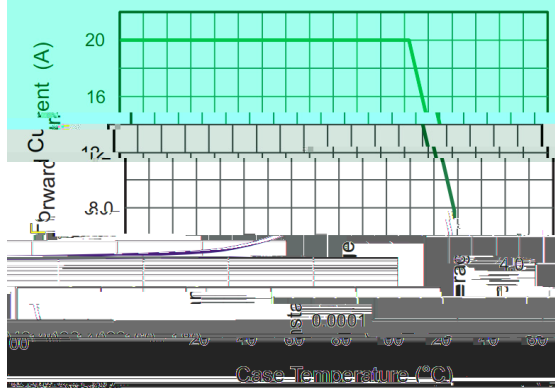


Fig.2 Typical Reverse Characteristics

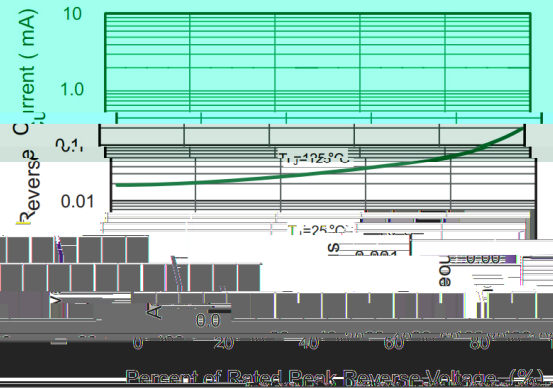


Fig.3 Typical Forward Characteristics

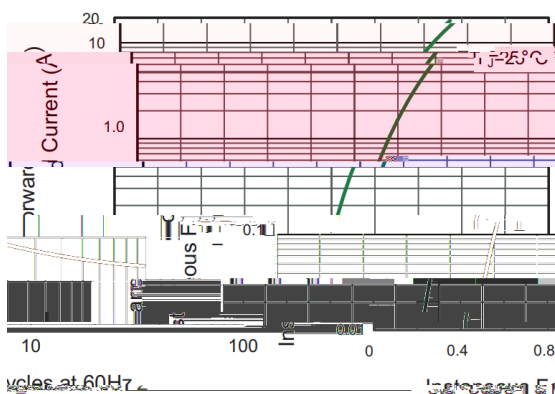
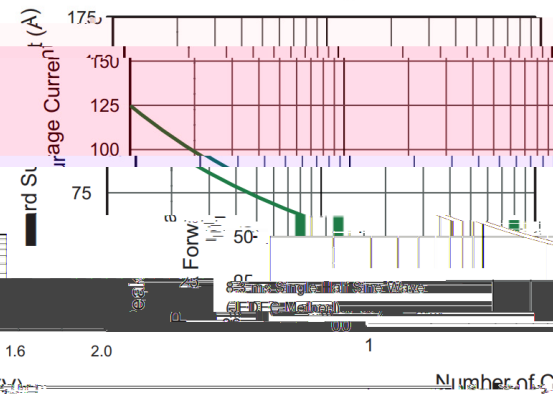
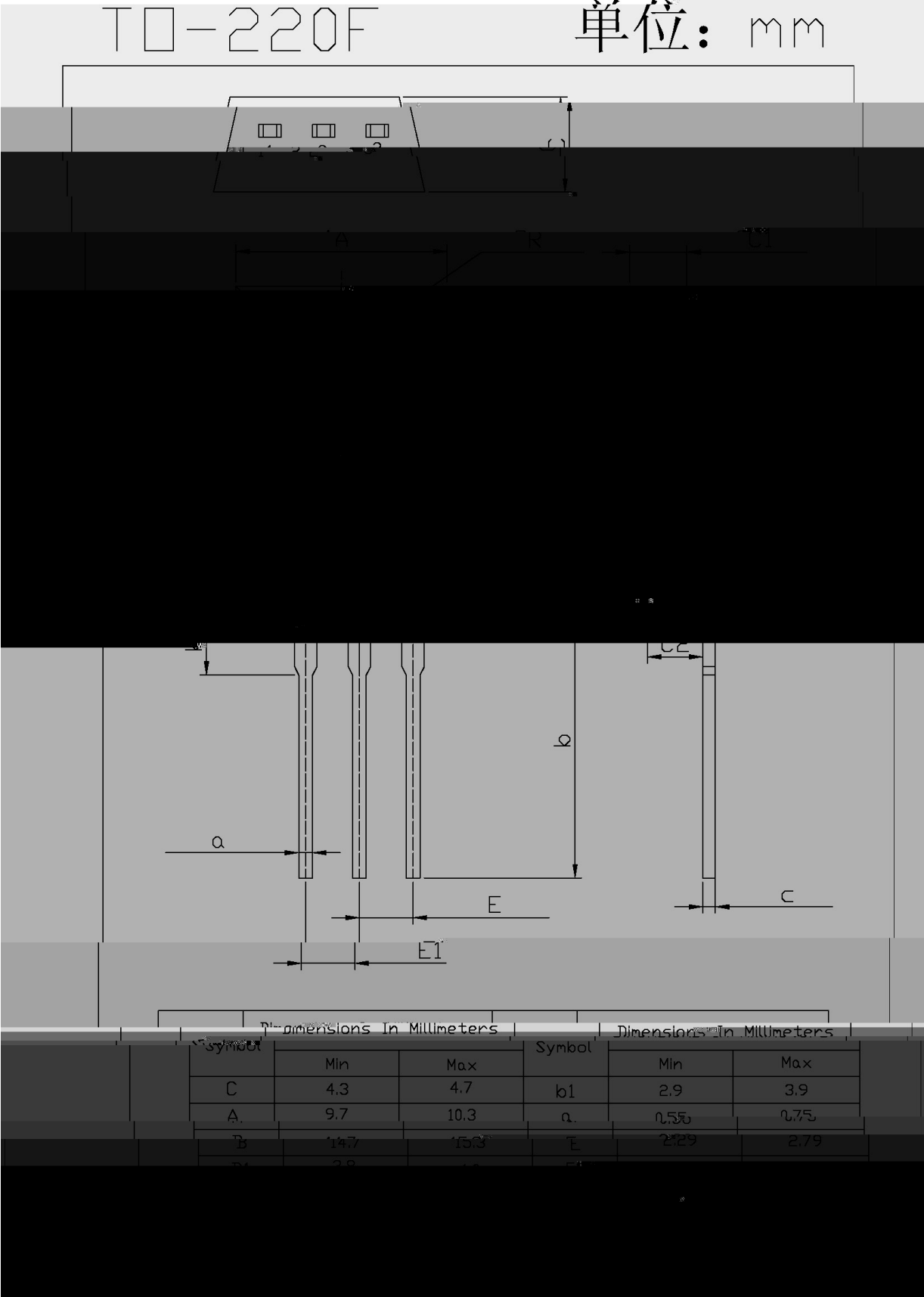


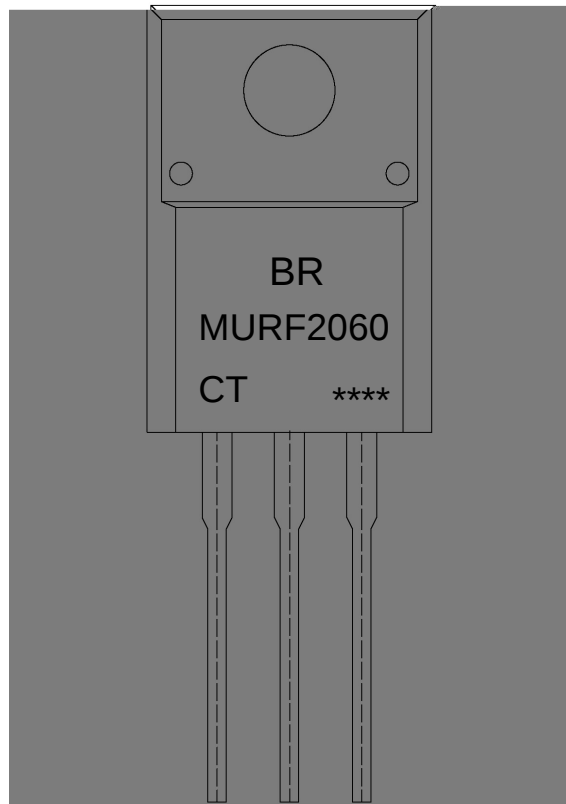
Fig.4 Maximum Non-Repetitive Peak Forward Surge Current



/ Package Dimensions



/ Marking Instructions



Note:

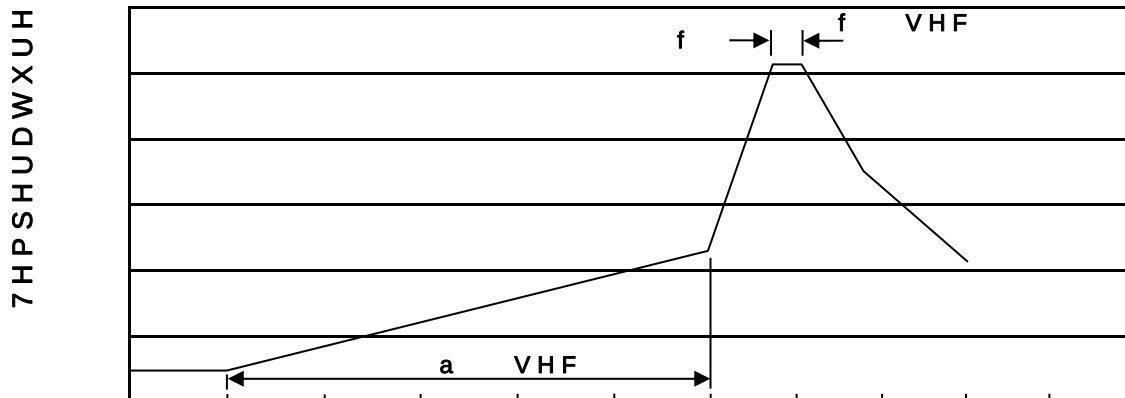
BR: Company Code

MURF2060 Product Type Code

CT: Internal Structure

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

GPD t... • Ž Ć (x /) / Temperature Profile for Dip Soldering(Pb-Free)



7LP H VHF

a Ć y

10• Ä ½ “† 25 ½150 - k ž • 60 ½90sec;

20• Q > “† 255 r5 - k ž • 4 Ò 5 r0.5sec;

30•D N ò i Ò 0 , † 2 ½10 - /sec.

Note:

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

2.Peak Temp.:255 r5 - , Duration:5 r0.5sec.

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

ÄD /Cã p ¯ »] / Resistance to Soldering Heat Test Conditions

“† y 270 r5 -

ž • y 10 r1 sec.

Temp.:270±5

Time:10±1 sec

GP á / Packaging SPEC.

• ^ x / BULK

Package Type 7>û ~ E	Units ;>û !H					Dimension ;>û p . (unit Ämm³)		
	Units/Bag />Ä	Bags/Inner Box >Ä-	Units/Inner Box /-	Inner Boxes/Outer Box - /1ç	Units/Outer Box /1ç	Bag>Ä	Inner Box	Outer Box
TO-220/F	200	10	2,000	5	10,000	135×190	237×172×102	560×245×195

ì ' x / TUBE

Package Type 7>û ~ E	Units ;>û !H					Dimension ;>û p . (unit Ämm³)		
	Units/Tube /•1×	Tubes/Inner Box •1×/-	Units/Inner Box /-	Inner Boxes/Outer Box - /1ç	Units/Outer Box /1ç	Tube•1×	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

„Đ y f / Notices