

MURF2060CT

Rev.A Jan.-2024

/ Descriptions

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

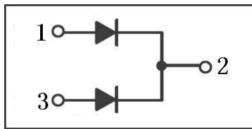
/ Features

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

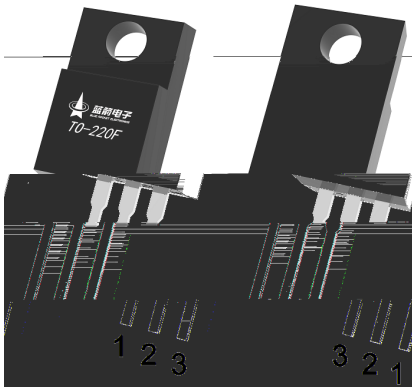
/ Applications

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.

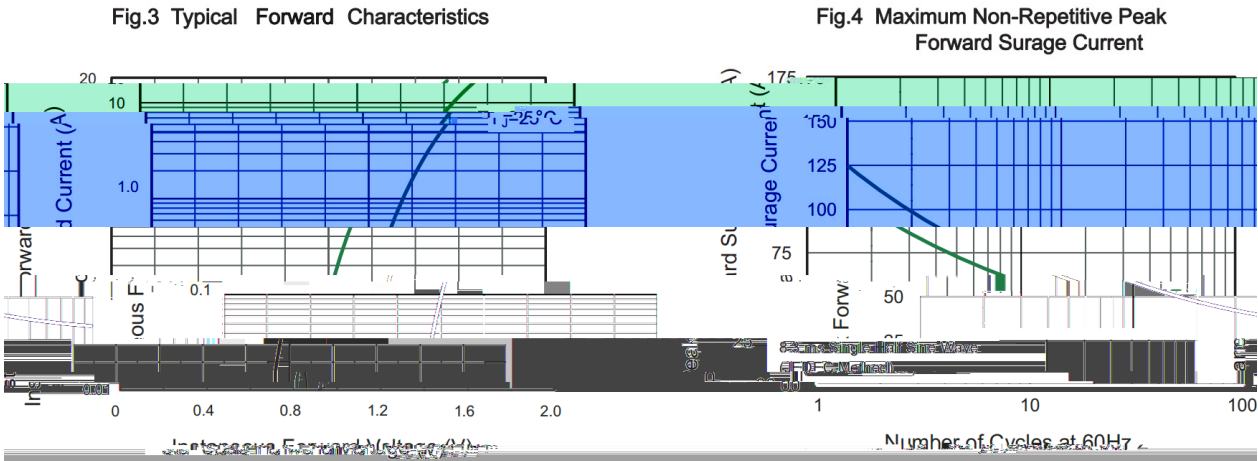
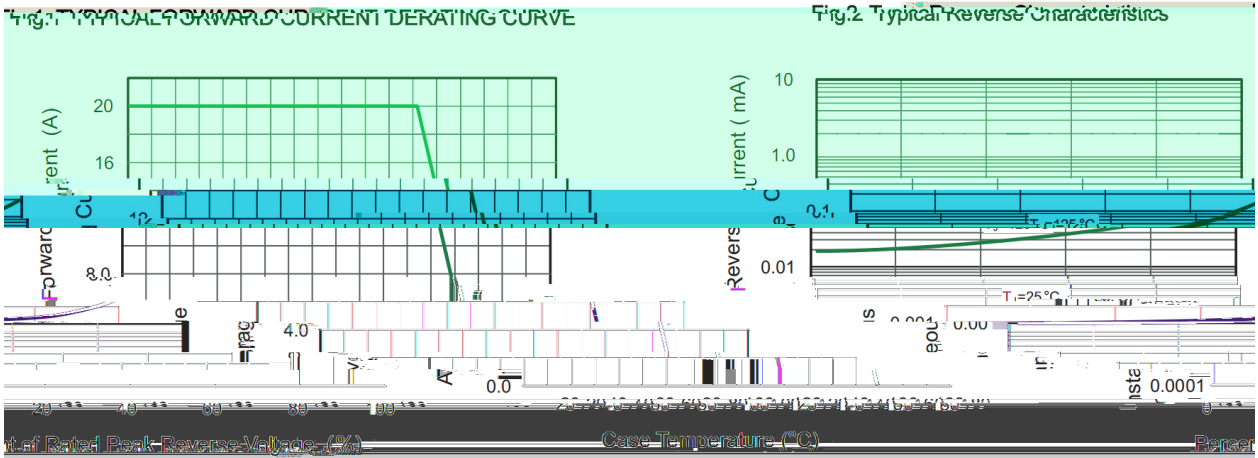
/ Absolute Maximum Ratings(Ta=25)

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 @Tc=100	$I_{F(AV)}$	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	

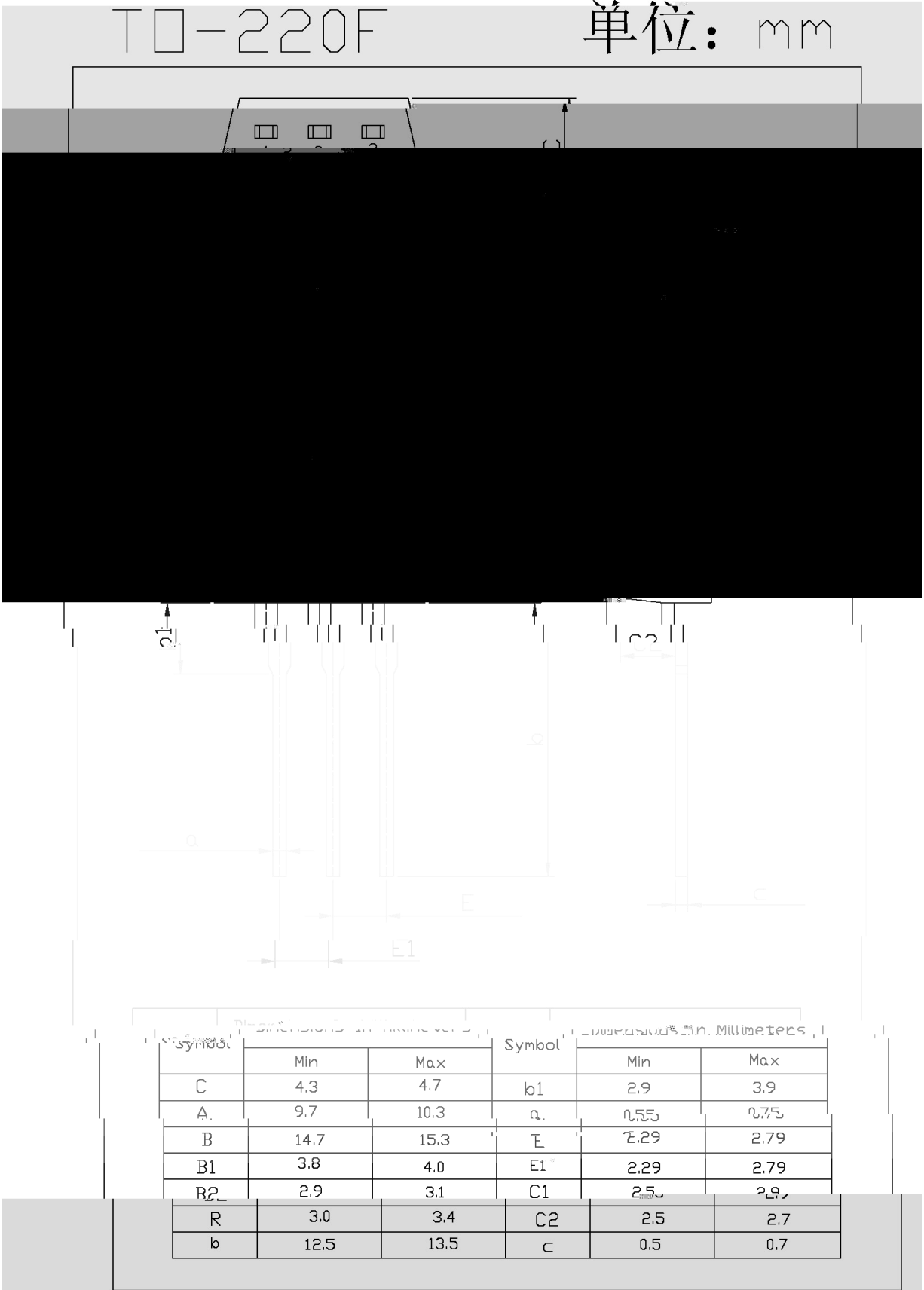
/ Electrical Characteristics(Ta=25)

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

/ **Electrical Characteristic Curve**



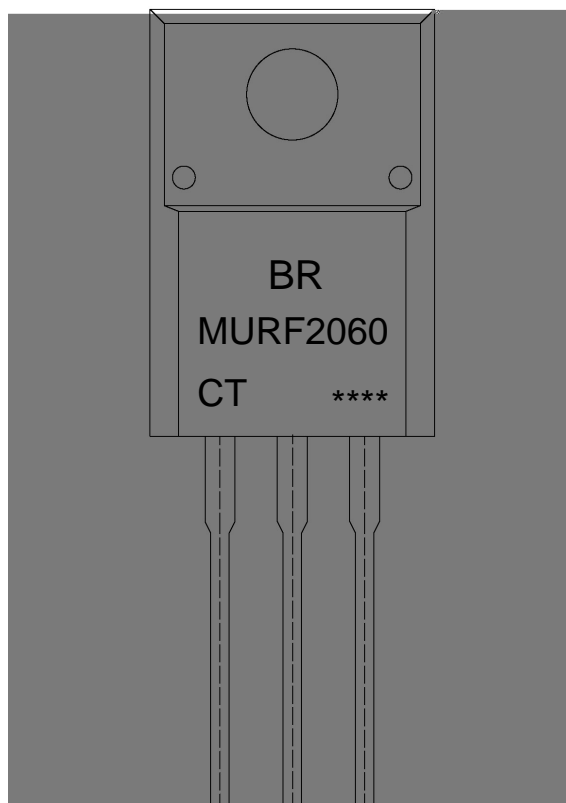
/ Package Dimensions



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/ Marking Instructions



Note:

BR:

Company Code

MURF2060

Product Type Code

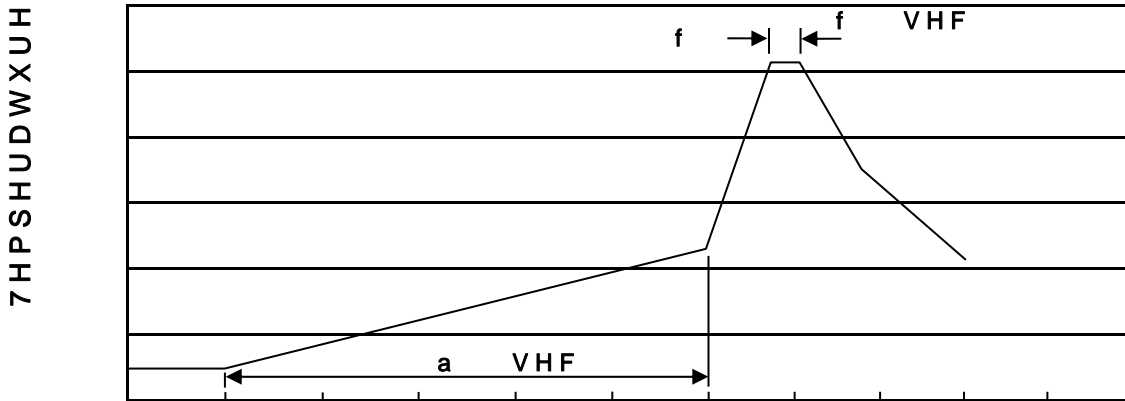
CT:

Internal Structure

****:

Lot No. Code, code change with Lot No

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



7LPH VHF

a Ć y

1o• Ā ½ “ † 25 ½150 - k ž • 60 ½90sec;

2o• Q › “ † 255 r5 - k ž • 4 Ò 5 r0.5sec;

3o•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.

ĀD /Cā p̄ »] / Resistance to Soldering Heat Test Conditions

“ † y 270 r5 -

ž • y 10 r1 sec.

Temp.:270±5

Time:10±1 sec

G P á / Packaging SPEC.

• ^ x / BULK

Package Type 7>û ~ E	Units ;>û iH					Dimension ;>û p . (unit Āmm³)		
	Units/Bag />Ā	Bags/Inner Box >Ā-	Units/Inner Box /-	Inner Boxes/Outer Box - /1Ć	Units/Outer Box /1Ć	Bag>Ā	Inner Box	Outer BoxĆ
TO-220/F	200	10	2,000	5	10,000	135x190	237x172x102	560x245x195

ì ' x / TUBE

Package Type 7>û ~ E	Units ;>û iH					Dimension ;>û p . (unit Āmm³)		
	Units/Tube /•1x	Tubes/Inner Box •1x/-	Units/Inner Box /-	Inner Boxes/Outer Box - /1Ć	Units/Outer Box /1Ć	Tube•1x	Inner Box	Outer BoxĆ
TO-220/F	50	20	1,000	5	5,000	532x31.4x5.5	555x164x50	575x290x180

„Đ y f / Notices