

MURF1060(BR2CK1060F)

Rev.C Feb.-2015

描述 / Descriptions

TO-220F 塑料封装 超快恢复二极管。

Ultrafast Recovery Diode in a TO-220F Plastic Package.

特征 / Features

极快的恢复时间，采用 TO-220F 封装，极低的正向压降，极小的反向漏电流，600V 耐压。

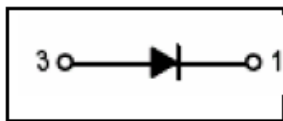
Ultrafast recovery time, popular TO-220F package, low forward voltage, low leakage current, reverse voltage to 600V.

用途 / Applications

该产品可用于高频脉宽调制电路中的输出整流和续流，因其具有反向恢复电荷少，恢复时间快的特点，所以能明显减少电路的开关损耗。

These devices are intended for output rectifiers and flywheel diodes in a variety of high-frequency pulse-width modulated switching regulators. Their low stored charge and attendant fast reverse-recovery behavior minimize electrical noise generation and in many circuits markedly reduce the turn-on dissipation of associated power switching transistors.

内部等效电路 / Equivalent Circuit



引脚排列 / Pinning



PIN1 : Cathode

PIN 3 : Anode

放大及印章代码 / h_{FE} Classifications & Marking

见印章说明。 See Marking Instructions

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极限参数 / Absolute Maximum Ratings(Ta=25°C)

参数 Parameter	符号 Symbol	数值 Rating	单位 Unit
Peak Repetitive Reverse Voltage	V_{RRM}	600	V
Maximum VRMS Voltage	V_{RWM}	600	V
Maximum DC Blocking Voltage	V_R	600	V
Maximum Average Forward Current	I_F	10	A
Non Repetitive Peak Surge Current	I_{FSM}	100	A
Maximum Thermal Resistance Junction to Case	$R_{\theta Jc}$	2.0	°C/W
Junction Temperature Range	T_J	150	°C
Storage Temperature Range	T_{stg}	-55~150	°C

电性能参数 / Electrical Characteristics(Ta=25°C)

参数 Parameter	符号 Symbol	测试条件 Test Conditions	最小值 Min	典型值 Typ	最大值 Max	单位 Unit
Forward Voltage	V_F	$I_F=10A$ $T_c=25^\circ C$			1.55	V
		$I_F=10A$ $T_c=125^\circ C$			1.25	V
Reverse Leakage	I_R	$V_R=600V$ $T_c=25^\circ C$			10	μA
		$V_R=600V$ $T_c=125^\circ C$			50	μA
Reverse Recovery Time	t_{rr}	$I_R=0.2A$ $I_F=0.1A$ $I_{REC}=0.05A$			50	ns

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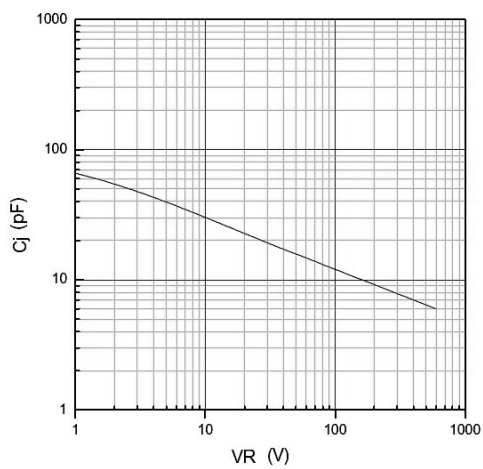
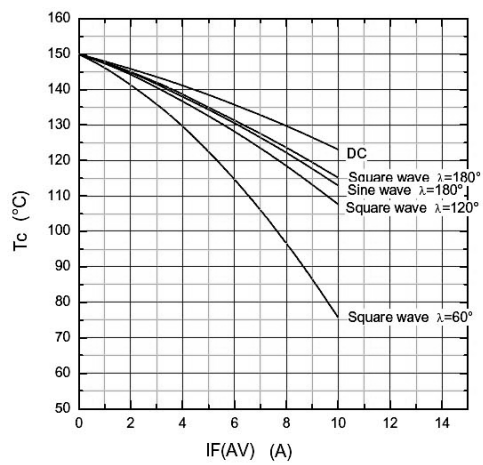
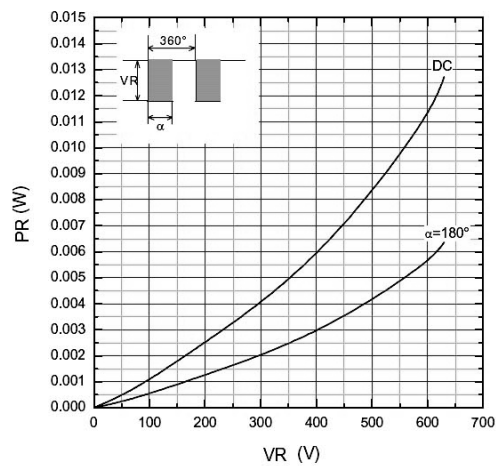
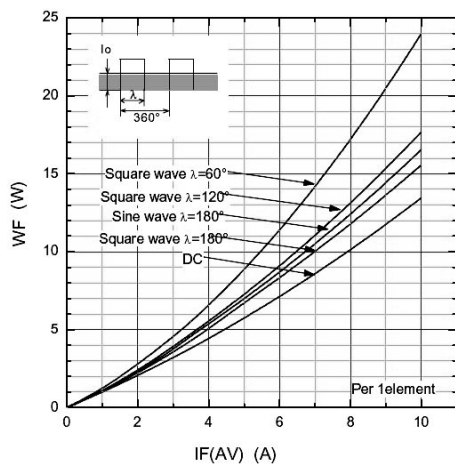
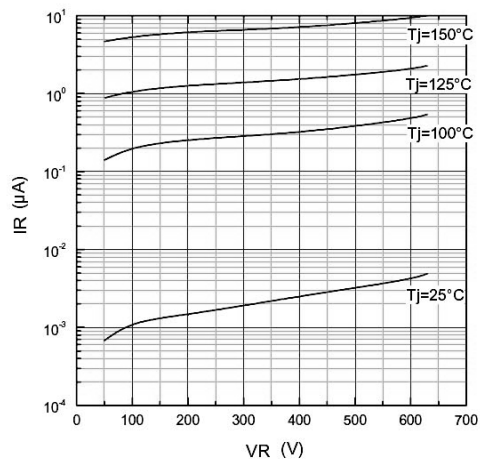
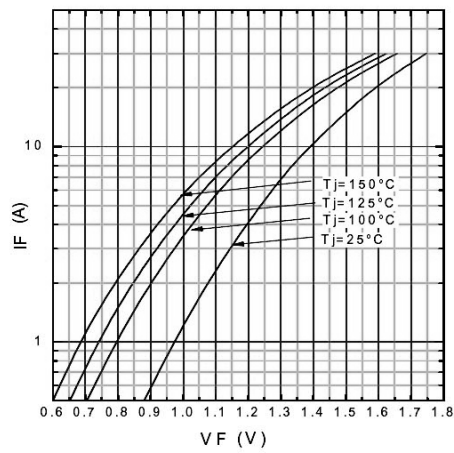
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蓝箭电子
BLUE ROCKET ELECTRONICS

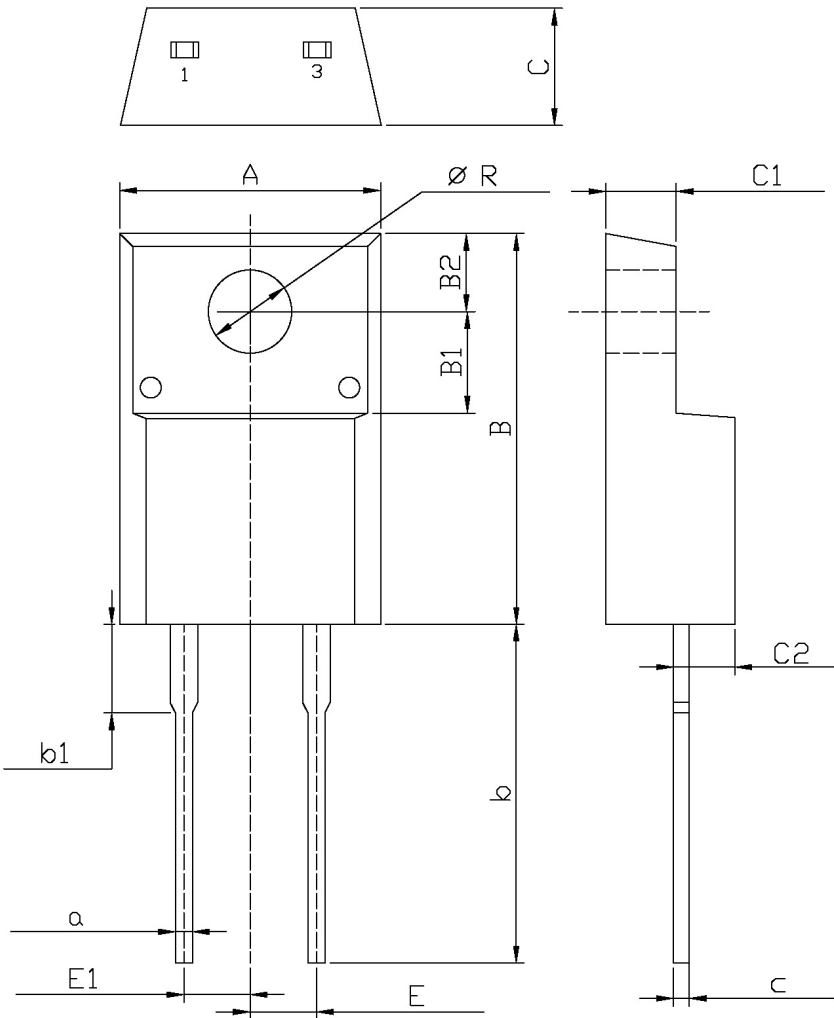
DATA SHEET

电参数曲线图 / Electrical Characteristic Curve



外形尺寸图 / Package Dimensions

TO-220F Unit: mm

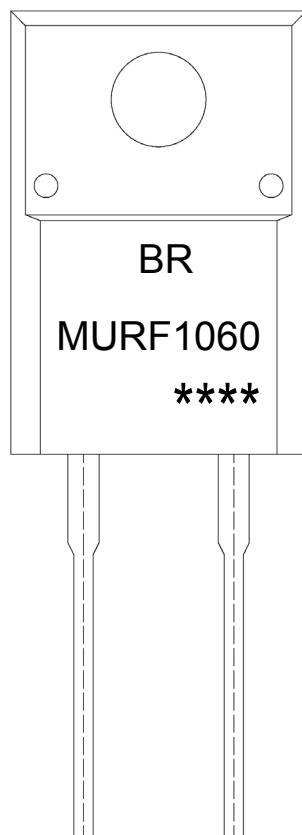


Symbol	Dimensions In Millimeters		Symbol	Dimensions In Millimeters	
	Min	Max		Min	Max
A	9.7	10.3	a	0.55	0.75
R	3.0	3.4	E	2.29	2.79
B	14.7	15.3	C1	2.5	2.9
B1	3.8	4.0	C2	2.5	2.7
B2	2.9	3.1	c	0.5	0.7
b	12.5	13.5	C	4.3	4.7
b1	2.9	3.9	E1	2.29	2.79

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印章说明 / Marking Instructions



说明：

BR： 为公司代码

MURF1060： 为型号代码

****： 为生产批号代码，随生产批号变化。

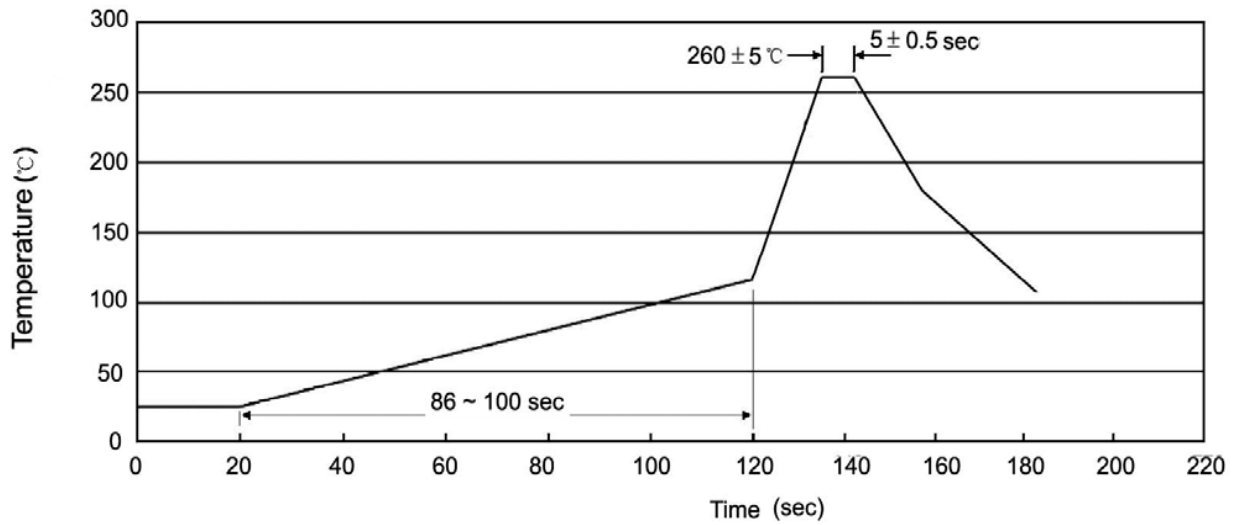
Note:

BR: Company Code

MURF1060: Product Type.

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

波峰焊温度曲线图(无铅) / Temperature Profile for Dip Soldering(Pb-Free)



说明：

- 1、预热温度 25 ~ 150°C，时间 60 ~ 90sec;
- 2、峰值温度 260±5°C，时间持续为 5±0.5sec;
- 3、焊接制程冷却速度为 2 ~ 10°C/sec.

Note:

- 1.Preheating:25~150°C, Time:60~90sec.
- 2.Peak Temp.:260±5°C, Duration:5±0.5sec.
3. Cooling Speed: 2~10°C/sec.

耐焊接热试验条件 / Resistance to Soldering Heat Test Conditions

温度：270±5°C

时间：10±1 sec.

Temp.:270±5°C

Time:10±1 sec

包装规格 / Packaging SPEC.

散件包装 / BULK

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	Units/Bag 只/袋	Bags/Inner Box 袋/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Bag 袋	Inner Box 盒	Outer Box 箱
TO-220/F	200	10	2,000	5	10,000	135×190	237×172×102	560×245×195

套管包装 / TUBE

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	Units/Tube 只/套管	Tubes/Inner Box 套管/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Tube 套管	Inner Box 盒	Outer Box 箱
TO-220/F	50	20	1,000	5	5,000	532×31.4×5.5	555×164×50	575×290×180

使用说明 / Notices