

MURF1020CT-MURF1060CT

Rev.E Mar.-2016

描述 / Descriptions

TO-220FL 塑封封装 超快恢复二极管。

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

特征 / Features

采用硅外延工艺生产的超快恢复二极管，具有较低的反向漏电和高可靠性。

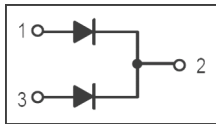
Silicon epitaxial process to produce ultrafast recovery diode with low reverse leakage current and high reliability.

用途 / Applications

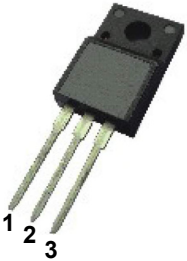
用于高频、高压、大电流整流二极管，续流二极管，PFC 电路。

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

内部等效电路 / Equivalent Circuit



引脚排列 / Pinning



PIN1 : Anode

PIN 2 : 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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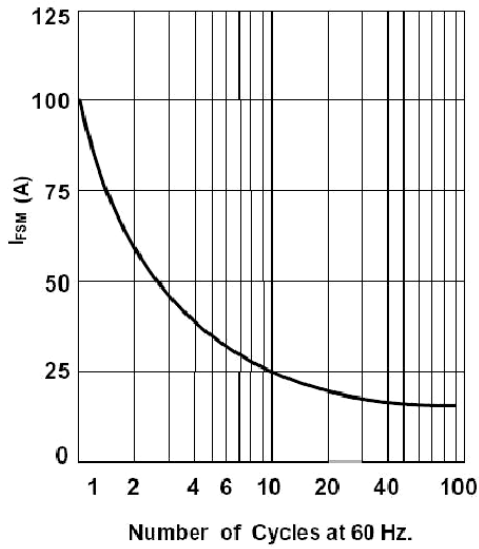
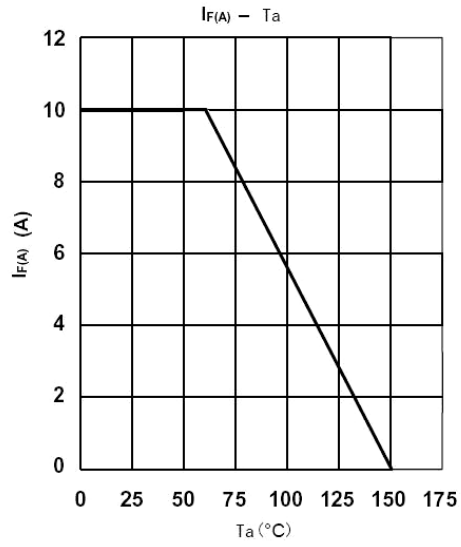
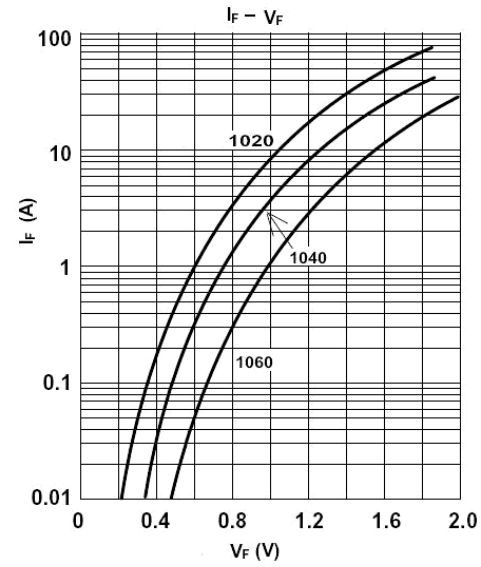
极限参数 / Absolute Maximum Ratings(Ta=25°C)

参数 Parameter	符号 Symbol	数值 Rating			单位 Unit
		MURF 1020CT	MURF 1040CT	MURF 1060CT	
Peak Repetitive Reverse Voltage	V_{RRM}	200	400	600	V
RMS Voltage	V_{RMS}	140	280	420	V
DC Blocking Voltage	V_{DC}	200	400	600	V
Peak Repetitive Forward Current	I_F	10			A
Non Repetitive Peak Surge Current	I_{FSM}	100			A
Maximum Thermal Resistance Junction to Case	$R_{\theta Jc}$	3.0	2.0		°C/W
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	数值 Rating			单位 Unit
			MURF 1020CT	MURF 1040CT	MURF 1060CT	
Forward Voltage	V_F	$I_F=5A$ $T_c=25^\circ C$	1.0	1.3	1.5	V
Instantaneous Reverse Current	I_R	$V_R=400V$ $T_a=25^\circ C$	10			μA
		$V_R=400V$ $T_a=125^\circ C$	250			μA
Reverse Recovery Time	t_{rr}	$I_F=0.5A$ $I_R=1.0A$ $I_{REC}=0.25A$	35	50		ns

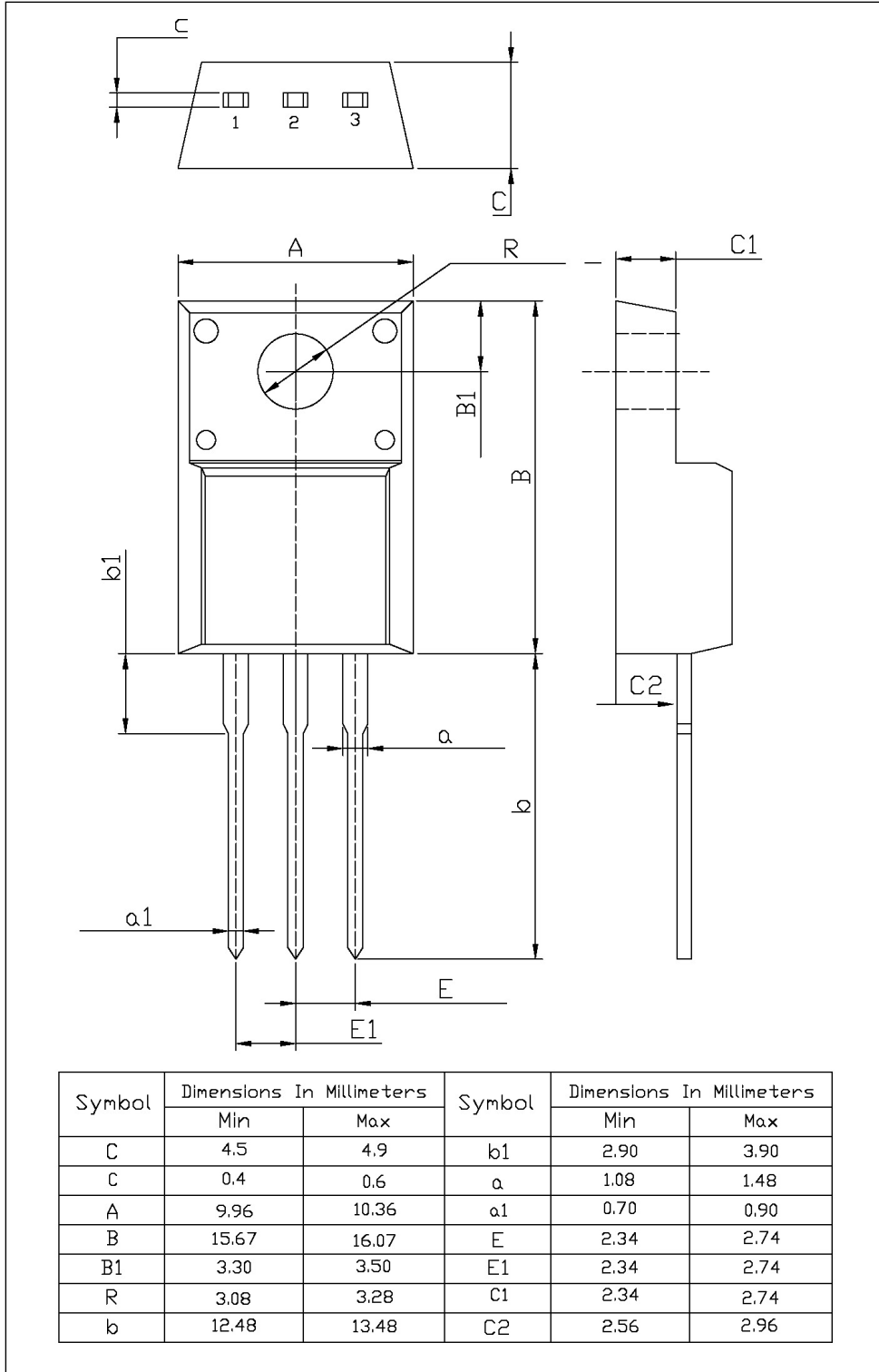
电参数曲线图 / Electrical Characteristic Curve



外形尺寸图 / Package Dimensions

TO-220FL

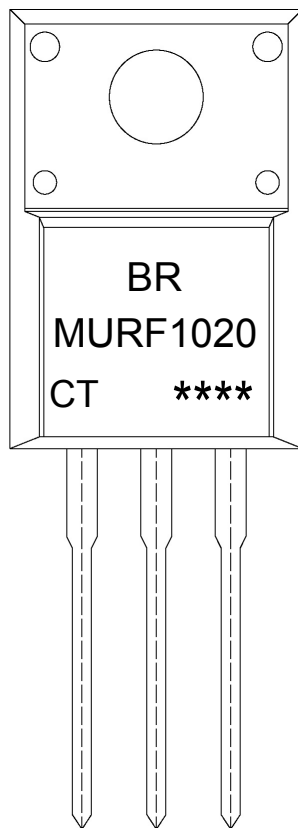
单位: mm



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印章说明 / Marking Instructions



说明：

BR： 为公司代码

MURF1020： 为产品型号

CT： 为内部结构

****： 为生产批号代码，随生产批号变化。

Note:

BR: Company Code

MURF1020: Product Type

CT: Internal Structure

****: 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 255±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.:255±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.

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-220FL	50	20	1,000	5	5,000	532×33×7.0	555×164×50	575×290×180

使用说明 / Notices