



# MBR(F)1060CT

Schottky Barrier Rectifier

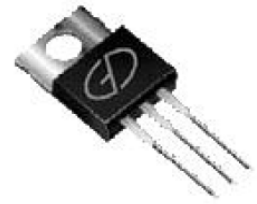
Reverse Voltage 60 Volts Forward Current 10 Amperes

## Features

- Plastic package has underwriters Laboratory Flammability Classification 94V-0
- Dual rectifier construction, positive center tap
- Metal of silicon rectifier, majority carrier conduction
- Low forward voltage, high efficiency
- Guarding for over voltage protection



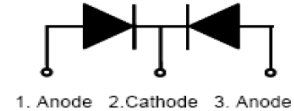
Package: ITO-220-AB



Package: TO-220-AB

## Mechanical Data

- Case: Epoxy, Molded
- Weight: 1.9grams (approximately)
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
- Lead Temperature for Soldering Purposes: 260°C Max. for 10 sec
- Shipped 50 units per plastic tube



## Maximum Ratings & Electrical Characteristics

( $T_A=25^\circ\text{C}$  unless otherwise noted)

PARAMETER	TEST CONDITIONS	SYMBOL	MBR(F)1060CT	UNIT	
Maximum repetitive peak reverse voltage		$V_{RRM}$	60	V	
Working peak reverse voltage		$V_{RWM}$	60	V	
Maximum DC blocking voltage		$V_{DC}$	60	V	
Maximum average forward rectified current at $T_c=105^\circ\text{C}$ total device per diode		$I_F(AV)$	10 5	A	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load per diode		$I_{FSM}$	120	A	
Peak repetitive reverse current per leg at $t_p=2.0\mu\text{s}$ , 1KHz		$I_{RRM}$	1.0	A	
Voltage rate of change (rated $V_R$ )		$DV/dt$	10000	V/ $\mu\text{s}$	
Operating junction temperature range		$T_J$	-55 to +150	$^\circ\text{C}$	
Storage temperature range		$T_{STG}$	-55 to +150	$^\circ\text{C}$	
Isolation voltage (ITO-220-AB only) from terminal to heatsink $t = 1$ sec		$V_{AC}$	1500	V	
Maximum instantaneous forward voltage per leg	$I_F=5\text{A}$ $I_F=5\text{A}$	$T_C=25^\circ\text{C}$ $T_C=125^\circ\text{C}$	$V_F$	0.80 0.70	V
Maximum reverse current per leg at working peak Reverse voltage		$T_J=25^\circ\text{C}$ $T_J=100^\circ\text{C}$	$I_R$	200 15	$\mu\text{A}$ mA
<b>Thermal Characteristics <math>T_A=25^\circ\text{C}</math> unless otherwise noted</b>					
Symbol	Parameter	TYP (TO-220-AB)	TYP (ITO-220-AB)	Unit	
R $\theta$ JC	Thermal Resistance, Junction to Case per Leg	2.0	4.0	$^\circ\text{C}/\text{W}$	
R $\theta$ JA	Thermal Resistance, Junction to Ambient per Leg	62.5	62.5	$^\circ\text{C}/\text{W}$	

**Note:** Pulse test: 300 $\mu\text{s}$  pulse width, duty cycle=2%



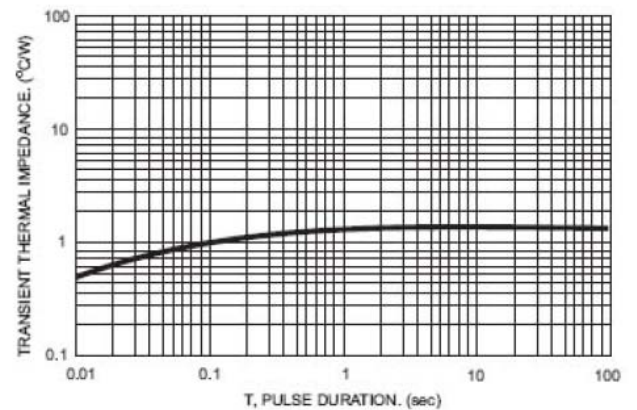
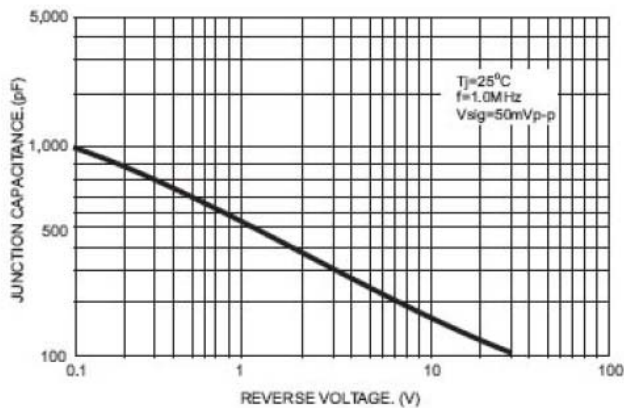
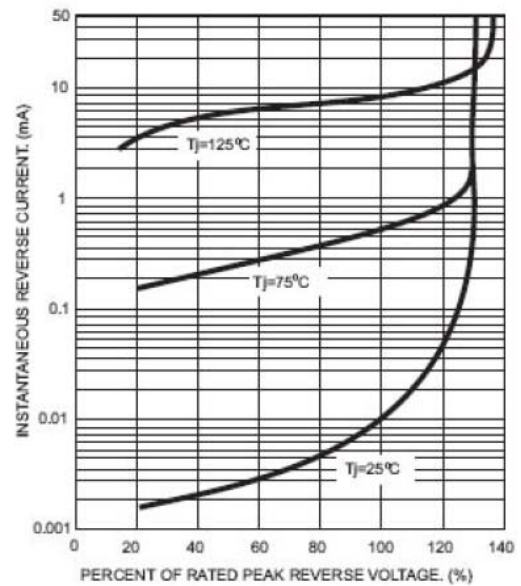
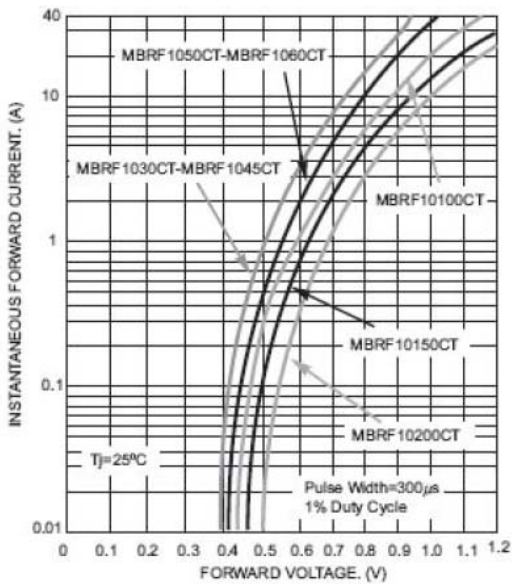
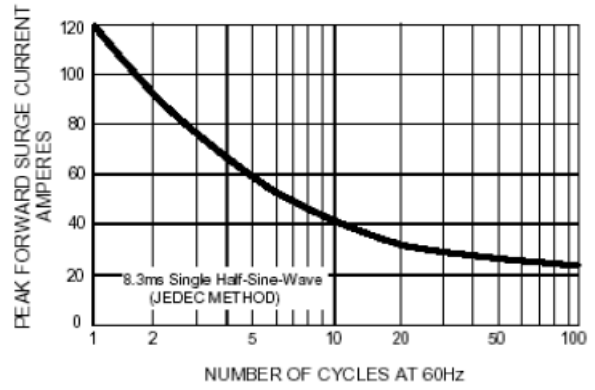
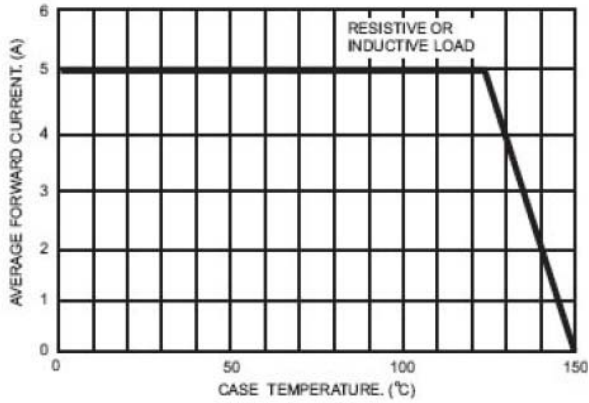
# MBR(F)1060CT

Schottky Barrier Rectifier

Reverse Voltage 60 Volts Forward Current 10 Amperes

## Ratings and Characteristics Curves

( $T_A = 25^\circ\text{C}$  unless otherwise noted)





# MBR(F)1060CT

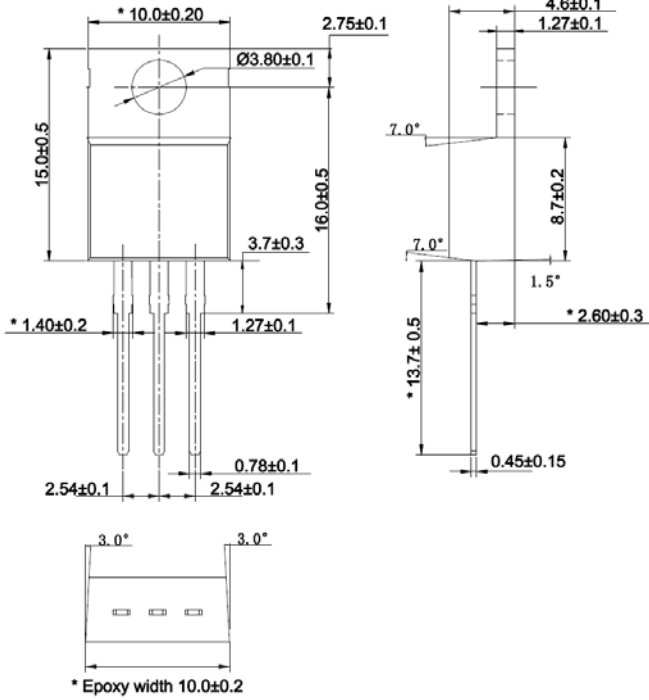
Schottky Barrier Rectifier

Reverse Voltage 60 Volts Forward Current 10 Amperes

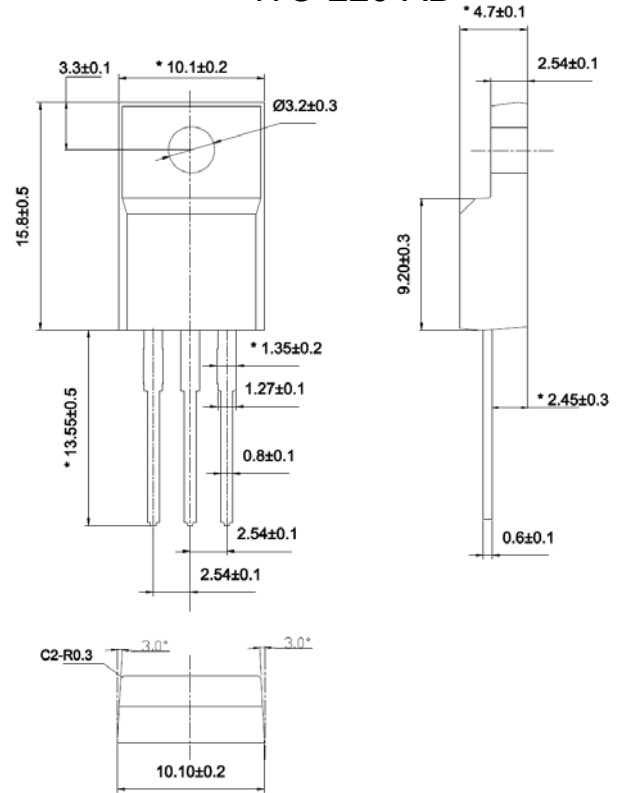
## Package Outline Dimensions

Unit: millimeters

### TO-220-AB



### ITO-220-AB





# **MBR(F)1060CT**

Schottky Barrier Rectifier

Reverse Voltage 60 Volts Forward Current 10 Amperes

---

## **Disclaimers**

These materials are intended as a reference to assist our customers in the selection of the Suzhou Goo-Ark product best suited to the customer's application; they do not convey any license under any intellectual property rights, or any other rights, belonging to Suzhou Good-Ark Electronics Co., Ltd. or a third party.

Suzhou Good-Ark Electronics Co., Ltd. assumes no responsibility for any damage, or infringement of any third-party's rights, originating in the use of any product data, diagrams, charts, programs, algorithms, or circuit application examples contained in these materials.

All information contained in these materials, including product data, diagrams, charts, programs and algorithms represents information on products at the time of publication of these materials, and are subject to change by Suzhou Good-Ark Electronics Co., Ltd. without notice due to product improvements or other reasons. It is therefore recommended that customers contact Suzhou Good-Ark Electronics Co., Ltd. or an authorized Suzhou Good-Ark Electronics Co., Ltd. for the latest product information before purchasing a product listed herein. The information described here may contain technical inaccuracies or typographical errors. Suzhou Good-Ark Electronics Co., Ltd. assumes no responsibility for any damage, liability, or other loss rising from these inaccuracies or errors. Please also pay attention to information published by Suzhou Good-Ark Electronics Co., Ltd. by various means, including our website home page.  
(<http://www.goodark.com>)

When using any or all of the information contained in these materials, including product data, diagrams, charts, programs, and algorithms, Please be sure to evaluate all information as a total system before making a final decision on the applicability of the information and products. Suzhou Good-Ark Electronics Co., Ltd. assumes no responsibility for any damage, liability or other loss resulting from the information contained herein.

The prior written approval of Suzhou Good-Ark Electronics Co., Ltd. is necessary to reprint or reproduce in whole or in part these materials.

Please contact Suzhou Good-Ark Electronics Co., Ltd. or an authorized distributor for further details on these materials or the products contained herein.

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Schottky Diodes & Rectifiers](#) category:*

*Click to view products by [Good-Ark](#) manufacturer:*

Other Similar products are found below :

[MA4E2039](#) [MA4E2508M-1112](#) [MBR10100CT-BP](#) [MBR1545CT](#) [MMBD301M3T5G](#) [GS1JE-TP](#) [RB160M-50TR](#) [BAS 3010S-02LRH E6327](#)  
[BAT 54-02LRH E6327](#) [NSR05F40QNXT5G](#) [NSVR05F40NXT5G](#) [NTE555](#) [JANS1N6640](#) [SB07-03C-TB-H](#) [SBS818-TL-E](#) [SK310-T](#)  
[SK33A-TP](#) [SK34B-TP](#) [SS3003CH-TL-E](#) [PDS3100Q-7](#) [GA01SHT18](#) [CRS10I30A\(TE85L,QM](#) [MA4E2501L-1290](#) [MBRB30H30CT-1G](#)  
[DMJ3940-000](#) [SB007-03C-TB-E](#) [SK32A-TP](#) [SK33B-TP](#) [SK35A-TP](#) [SK38B-LTP](#) [SK38B-TP](#) [NRVBM120LT1G](#) [NTE505](#)  
[NTSB30U100CT-1G](#) [SS0503SH-TL-E](#) [VS-6CWQ10FNHM3](#) [CRG04\(T5L,TEMQ\)](#) [ACDBA1100LR-HF](#) [ACDBA1200-HF](#) [ACDBA2100-HF](#)  
[ACDBA240-HF](#) [ACDBA3100-HF](#) [CDBQC0530L-HF](#) [ACDBA260LR-HF](#) [ACDBA1100-HF](#) [MA4E2502L-1246](#) [10BQ060-M3/5BT](#)  
[NRVB130LSFT1G](#) [CRS08TE85LQM](#) [PMAD1108-LF](#)