

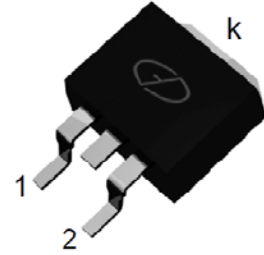


MURB1060CT

Ultrafast Recovery Planar Diode
Reverse Voltage 600 Volts Forward Current 10 Amperes

Features

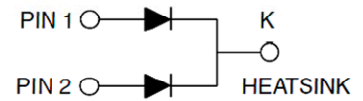
- FRED (Planar) wafer construction
- Ultrafast recovery time
- Low forward voltage drop, low power losses
- High efficiency operation
- Plastic package has underwriters Laboratory Flammability Classification 94V-0



Package: TO-263

Mechanical Data

- Case: Epoxy, Molded
- Weight: 1.4grams (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 or tape reel packing 800/reel



Maximum Ratings & Electrical Characteristics

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

| PARAMETER | TEST CONDITIONS | | SYMBOL | MURB1060CT | UNIT |
|--|---|---|-----------|--------------|--------------------------------|
| Maximum repetitive peak reverse voltage | | | V_{RRM} | 600 | V |
| Working peak reverse voltage | | | V_{RWM} | 600 | V |
| Maximum DC blocking voltage | | | V_{DC} | 600 | 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} | 90 | A |
| Voltage rate of change(rated V_R) | | | DV/dt | 10000 | V/us |
| Operating junction temperature range | | | T_J | -55 to +150 | $^\circ\text{C}$ |
| Storage temperature range | | | T_{STG} | -55 to +150 | $^\circ\text{C}$ |
| Maximum Reverse Recover Time ($I_F=0.5\text{Amp}$, $I_R=1.0\text{Amp}$, $I_{rec}=0.25\text{Amp}$) | T_{rr} | | T_{rr} | 50 | ns |
| 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 | 1.60 1.50 | 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 | 10 500 | μA μA |
| Thermal Characteristics $T_A=25^\circ\text{C}$ unless otherwise noted | | | | | |
| Symbol | Parameter | TYP. (TO-263) | | | Unit |
| $R_{\theta JC}$ | Thermal Resistance, Junction to Case per Leg | 2.0 | | | $^\circ\text{C}/\text{W}$ |
| $R_{\theta JA}$ | Thermal Resistance, Junction to Ambient per Leg | 62.5 | | | $^\circ\text{C}/\text{W}$ |

Note: Pulse test:300us pulse width, duty cycle=2%



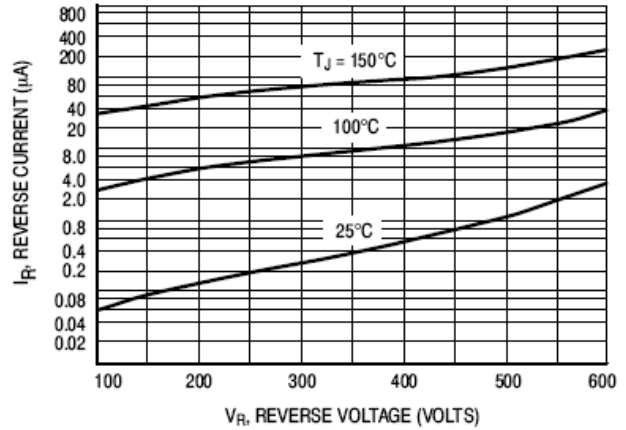
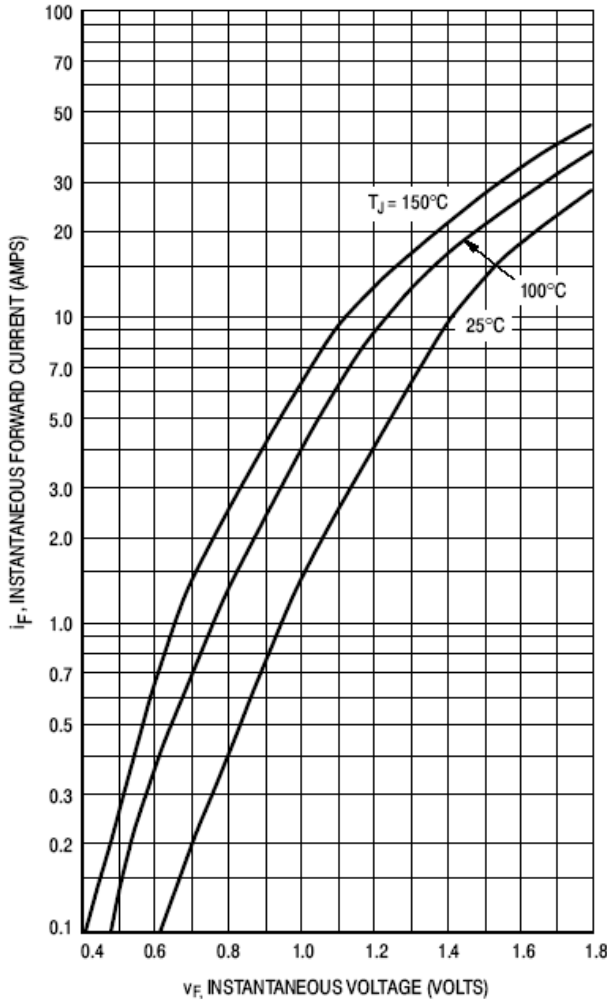
MURB1060CT

Ultrafast Recovery Planar Diode

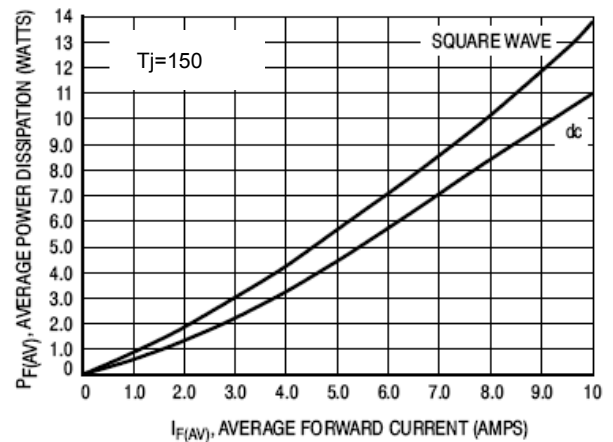
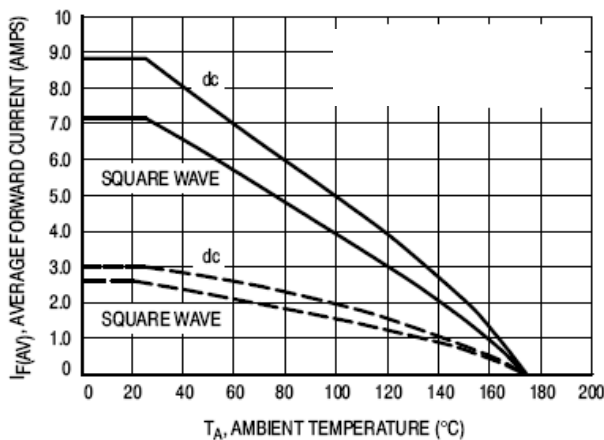
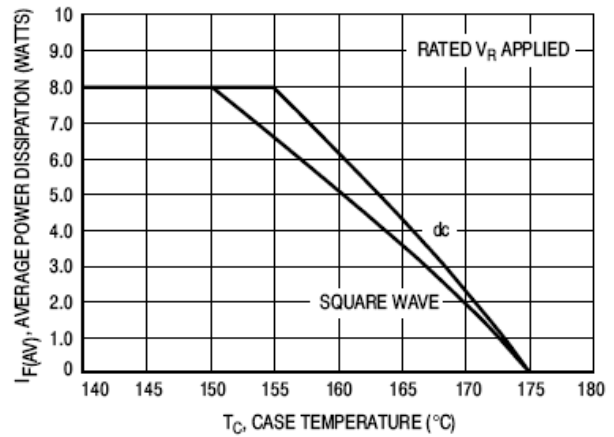
Reverse Voltage 600 Volts Forward Current 10 Amperes

Ratings and Characteristics Curves

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



* The curves shown are typical for the highest voltage device in the voltage grouping. Typical reverse current for lower voltage selections can be estimated from these same curves if V_R is sufficiently below rated V_R .



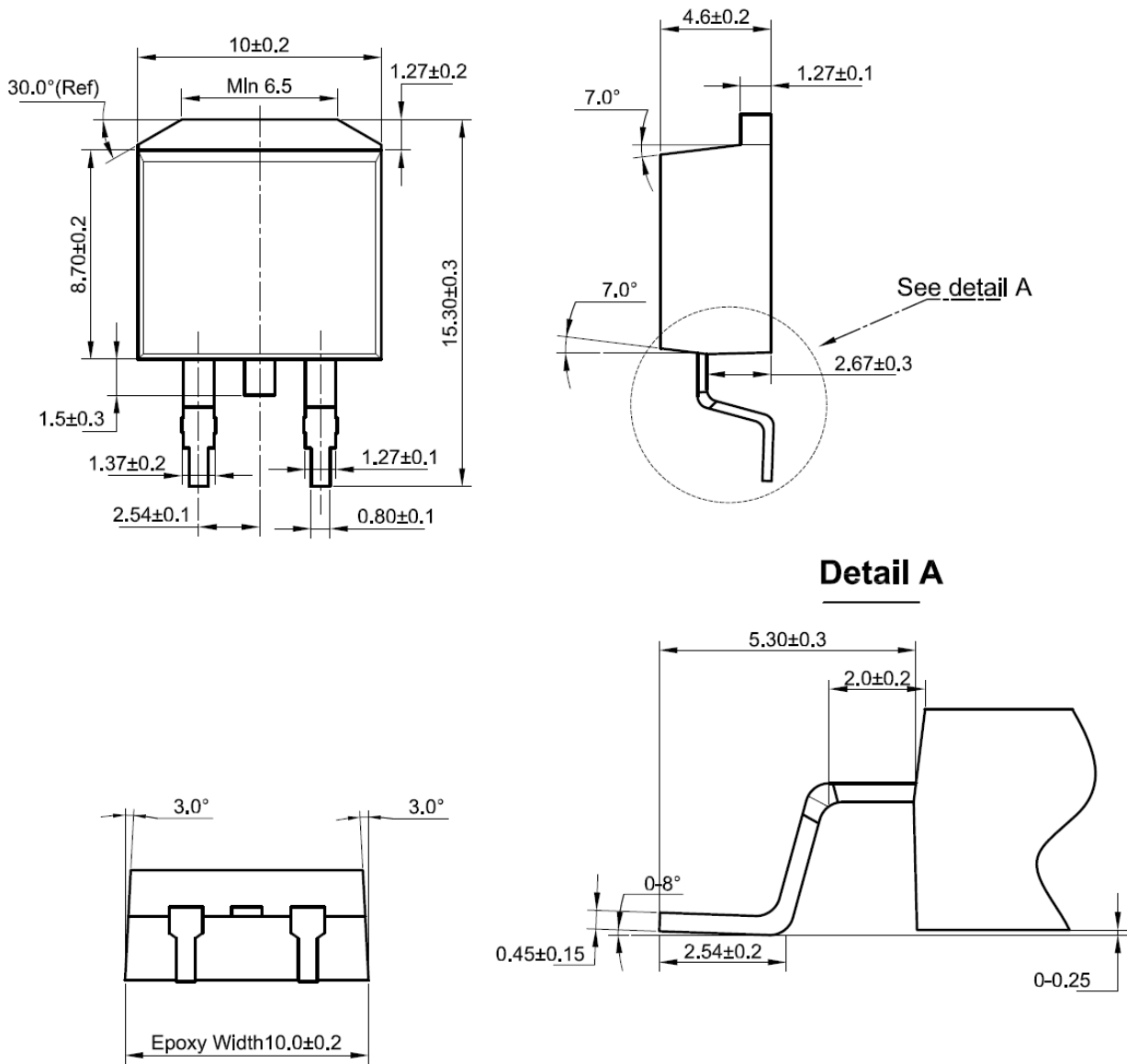


MURB1060CT

Ultrafast Recovery Planar Diode
Reverse Voltage 600 Volts Forward Current 10 Amperes

Package Outline Dimensions

Unit: millimeters **TO-263**





MURB1060CT

Ultrafast Recovery Planar Diode
Reverse Voltage 600 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.