

April 1995

15A, 100V - 200V Ultrafast Dual Diodes

Features

- Ultrafast with Soft Recovery Characteristic ($t_{RR} < 30ns$)
- +175°C Rated Junction Temperature
- Reverse Voltage Up to 200V
- Avalanche Energy Rated

Applications

- Switching Power Supply
- Power Switching Circuits
- General Purpose

Description

MUR3010PT, MUR3015PT, MUR3020PT and RURH1510CC, RURH1515CC, RURH1520CC are ultrafast dual diodes ($t_{RR} < 30ns$) with soft recovery characteristics. They have a low forward voltage drop and are of planar, silicon nitride passivated, ion-implanted, epitaxial construction.

These devices are intended for use as energy steering/ clamping diodes and rectifiers in a variety of switching power supplies and other power switching applications. Their low stored charge and ultrafast recovery with soft recovery characteristics minimizes ringing and electrical noise in many power switching circuits thus reducing power loss in the switching transistor.

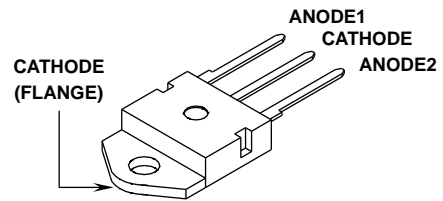
PACKAGING AVAILABILITY

PART NUMBER	PACKAGE	BRAND
MUR3010PT	TO-218AC	MUR3010PT
RURH1510CC	TO-218AC	RURH1510C
MUR3015PT	TO-218AC	MUR3015PT
RURH1515CC	TO-218AC	RURH1515C
MUR3020PT	TO-218AC	MUR3020PT
RURH1520CC	TO-218AC	RURH1520C

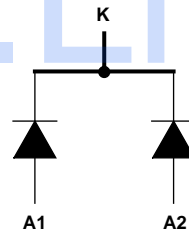
NOTE: When ordering, use the entire part number.

Package

JEDEC TO-218AC



Symbol



Absolute Maximum Ratings $T_C = +25^\circ C$

	MUR3010PT RURH1510CC	MUR3015PT RURH1515CC	MUR3020PT RUR1520CC
Peak Repetitive Reverse Voltage V_{RRM}	100V	150V	200V
Working Peak Reverse Voltage V_{RWM}	100V	150V	200V
DC Blocking Voltage V_R	100V	150V	200V
Average Rectified Forward Current $I_{F(AV)}$ (Total device forward current at rated V_R and $T_C = 150^\circ C$)	15A	15A	15A
Peak Forward Repetitive Current I_{FRM} (Rated V_R , square wave 20kHz)	30A	30A	30A
Nonrepetitive Peak Surge Current I_{FSM} (Surge applied at rated load condition halfwave 1phase 60Hz)	200A	200A	200A
Operating and Storage Temperature T_{STG}, T_J	-55°C to +175°C	-55°C to +175°C	-55°C to +175°C



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“Searchdatasheets provides users with one of the Internet’s most complete sources for obsolete datasheets,” said Ariel Zriel, President, Market Maker Systems.

As the life-cycle of components is shortened by the constant demand for faster and better technology, electronics parts are being rendered obsolete at an unprecedented rate. Searchdatasheets gathers and stores the fact sheets, which explain how to use those components.

“Once a component manufacturer decides to eliminate a component datasheet from its web site,” said Zriel, “we take over and list it along with the millions of other datasheets that our users can quickly access.”

Users can perform standard searches for datasheets, or use the cross-reference search option if they want to find a compatible part from another manufacturer.

Searchdatasheets also informs its users when parts are going to become obsolete, providing them with timely product change notification (PCN), product discontinuation notices (PDN) and end of life (EOL) notification.

Searchdatasheets is the only database of its kind that has components engineers onstaff.

That means users can count on assistance from qualified personnel when performing cross-reference searches. Searchdatasheets engineers also regularly research and add and new datasheets to the system.

“We have full-time Engineers on-staff to research and add datasheets if the information is not currently on our site,” said Zriel. “We are providing a place for users to have their questions answered quickly. Our aim is to build a community for components engineers who need help in product design.”

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