



UMUR2060

Preliminary

DIODE

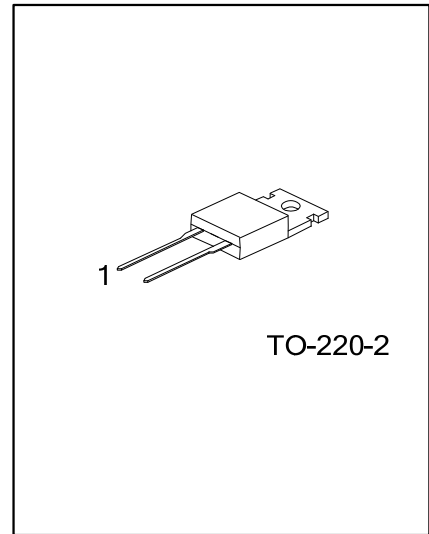
PLASTIC ULTRA-FAST RECOVER RECTIFIER

DESCRIPTION

The UTC UMUR2060 is an ultra-fast power rectifiers, it uses UTC's advanced technology to provide customers with low forward voltage drop and high current capability, etc.

FEATURES

- \* Low forward voltage drop
- \* High current capability
- \* High efficiency
- \* Low power loss



SYMBOL



ORDERING INFORMATION

Ordering Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
UMUR2060L-TA2-T	UMUR2060G-TA2-T	TO-220-2	K	A	NC	Tube

Note: Pin Assignment: A: Anode, K: Cathode

<p>UMUR2060L-TA2-T</p> <ul style="list-style-type: none"> <li>(1)Packing Type</li> <li>(2)Package Type</li> <li>(3)Halogen Free</li> </ul>	<ul style="list-style-type: none"> <li>(1) T: Tube</li> <li>(2) TA2: TO-220-2</li> <li>(3) L: Lead Free, G: Halogen Free</li> </ul>
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■ ABSOLUTE MAXIMUM RATINGS ( $T_A=25^\circ\text{C}$ , unless otherwise specified.)

PARAMETER	SYMBOL	RATINGS	UNIT
DC Blocking Voltage	$V_{DC}$	600	V
RMS Voltage	$V_{RMS}$	420	V
Peak Repetitive Reverse Voltage	$V_{RRM}$	600	V
Average Rectified Forward Current	$I_{F(AV)}$	20	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave	$I_{FSM}$	150	A
Operating Junction Temperature	$T_J$	-55~+150	$^\circ\text{C}$
Storage Temperature	$T_{STG}$	-55~+150	$^\circ\text{C}$

Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ THERMAL CHARACTERISTICS (Ratings at  $25^\circ\text{C}$  ambient temperature unless otherwise specified.)

PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Case	$\theta_{JC}$	2.0	$^\circ\text{C/W}$

■ ELECTRICAL CHARACTERISTICS ( $T_A=25^\circ\text{C}$ , unless otherwise specified.)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage	$V_F$	$I_F=20\text{A}$			1.50	V
Reverse Current	$I_R$	$T_A=25^\circ\text{C}$			10	$\mu\text{A}$
		$T_A=125^\circ\text{C}$			250	$\mu\text{A}$
Reverse Recovery Time	$t_{RR}$	$I_F=0.5\text{A}, I_R=1.0\text{A}, I_{REC}=0.25\text{A}$			50	ns

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