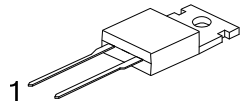
UMUR2060

Preliminary ***DIODE***

PLASTIC ULTRA-FAST RECOVER RECTIFIER



TO-220-2

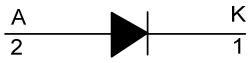
■ DESCRIPTION

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

UMUR2060L-TA2-T (1)Packing Type (2)Package Type (3)Halogen Free	(1) T: Tube (2) TA2: TO-220-2 (3) L: Lead Free, G: Halogen Free

■ ABSOLUTE MAXIMUM RATINGS (T_A=25°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	°C
Storage Temperature	T_{STG}	-55~+150	°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°C ambient temperature unless otherwise specified.)

PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Case	θ_{JC}	2.0	°C/W

■ ELECTRICAL CHARACTERISTICS (T_A=25°C, unless otherwise specified.)

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