UNISONIC TECHNOLOGIES CO., LTD

UFR2520

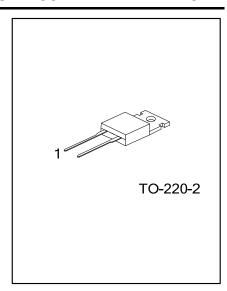
Preliminary

FAST RECOVERY EPITAXIAL DIODE

SUPERFAST RECOVERY RECTIFIER

DESCRIPTION

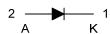
The UTC **UFR2520** is a superfast recovery rectifier, it uses UTC's advanced technology to provide customers with low forward voltage drop, low leakage, high current capability and high surge capability etc. These characteristics make it ideal for heavy duty applications that demand long term reliability. also fit into auxiliary functions such as snubber, bootstrap, and demagnetization applications.



■ FEATURES

- * Ultrafast, soft recovery
- * Very low conduction and switching losses
- * High frequency and or high pulsed current operation
- * High reverse voltage capability
- * High junction temperature

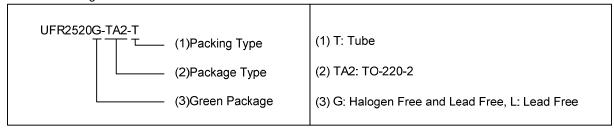
■ SYMBOL



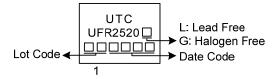
ORDERING INFORMATION

Ordering Number		Daakana	Pin Ass	Daakina		
Lead Free	Halogen Free	Package	1	2	Packing	
UFR2520L-TA2-T	UFR2520G-TA2-T	TO-220-2	K	Α	Tube	

Note: Pin Assignment: K: Cathode A: Anode



MARKING



www.unisonic.com.tw 1 of 3

■ ABSOLUTE MAXIMUM RATINGS (T_A=25°C, unless otherwise specified)

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load, 60Hz.

PARAMETER	SYMBOL	RATINGS	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	200	V
Average forward current, δ = 0.5% T_C =75°C	I _{F(AV)}	25	Α
Surge non repetitive forward current tp=10ms Sinusoidal	I _{FSM}	250	Α
Operating Junction Temperature	T_J	+150	°C
Storage Temperature Range	T _{STG}	-65 ~ +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 DATA

PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Case	θјς	2.1	°C/W

■ ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load, 60Hz

PARAMETER	SYMBOL	TEST CONDITIONS		MIN	TYP	MAX	UNIT
Forward voltage drop (Note 1)	VF	I _F =15A	T _J =25°C			1.6	V
			TJ=125°C			1.5	٧
Maximum Reverse Leakage Curren (Note 2)	IR	V _R =V _{RRM}	TJ=25°C			10	μA
Reverse recovery time	t _{rr}	I _F =25A,V _R =100V, dI _F /dt=100A/μs T _J =25°C			43		ns

Notes: 1. Pulse test: $t_P = 5$ ms, $\delta = 2$ %.

- 2. Pulse test: t_P = 380 ms, δ = 2 %.
- 3. To evaluate the conduction losses use the following equation: P=1.5 \times I_{F(AV)} + 0.05 I_F² (RMS).

UTC assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all UTC products described or contained herein. UTC products are not designed for use in life support appliances, devices or systems where malfunction of these products can be reasonably expected to result in personal injury. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. UTC reserves the right to make changes to information published in this document, including without limitation specifications and product descriptions, at any time and without notice. This document supersedes and replaces all information supplied prior to the publication hereof.

