

UHR1540

FAST RECOVERY EPITAXIAL DIODE

CATHODE HYPERFASTER SOFT RECOVERY RECTIFIER

DESCRIPTION

The UTC UHR1540 is a hyperfaster soft recovery rectifier, it uses UTC's advanced technology to provide customers with low forward voltage drop, high current capability and high efficiency, etc.

FEATURES

- * Low forward voltage drop
- * High current capability
- * High surge capacity
- * Low power loss
- * High efficiency
- * hyperfaster recovery times, high voltage

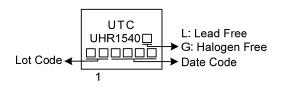
SYMBOL

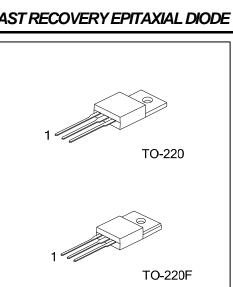
ORDERING INFORMATION

Ordering Number		Deekege	Pin Assignment			Decking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
UHR1540L-TA3-T	UHR1540G-TA3-T	TO-220	Α	К	А	Tube	
UHR1540L-TF3-T	UHR1540G-TF3-T	TO-220F	Α	К	А	Tube	
Note: Pin Assignment: A: Anode K: Cathode							

	(1)Packing Type (2)Package Type (3)Green Package	(1) T: Tube (2) TA3: TO-220, TF3: TO-220F (3) G: Halogen Free and Lead Free, L: Lead Free	

MARKING





■ ABSOLUTE MAXIMUM RATINGS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitance load, derate current by 20%.

PARAMETER	SYMBOL	RATINGS	UNIT
DC Blocking Voltage	V _R	400	V
Recurrent Peak Reverse Voltage	V _{RRM}	400	V
Average Average Forward Current at T _c =100°C	I _{F(AV)}	15	А
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	180	А
Operating Junction Temperature	ТJ	-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 DATA (PER LEG)

PARAMETER		SYMBOL	RATINGS	UNIT
Turical Thermal Desistance	TO-220	2		°C/W
Typical Thermal Resistance	TO-220F	θις	4	°C/W

ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitance load, derate current by 20%

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage Drop	V _F	I _F =15A			1.5	V
DC Reverse Current at Rated DC Blocking		TJ=25°C			100	μA
Voltage		T _J =125°C			500	μA
	T	I _F =1A, V _R =400V, di/dt=50A/μs		66		ns
Reverse Recovery Time		I _F =15A, V _R =400V, di/dt=50A/μs		89		ns
Junction Capacitance	CJ			56		pF

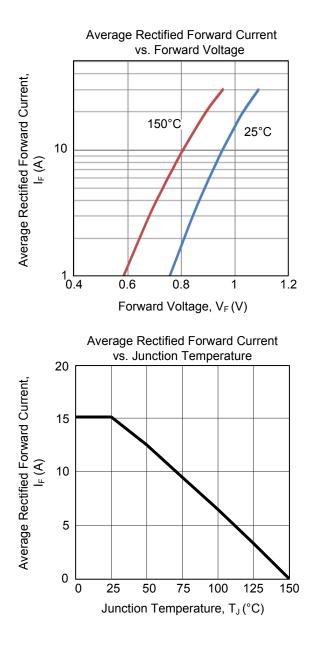
Note: Pulse Test: Pulse Width \leq 300µs, Duty Cycle \leq 2.0%.

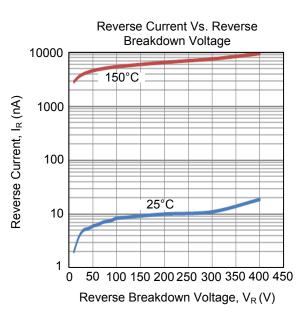


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TYPICAL CHARACTERISTICS





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