UMUR1560

SWITCHMODE POWER RECTIFIERS

■ DESCRIPTION

The UTC **UMUR1560** is a switchmode power rectifiers, it uses UTC's advanced technology to provide customers with low forward drop and low leakage current, etc.

The UTC **UMUR1560** is suitable for inverters and switching power supplies, etc.



- * Low forward drop voltage
- * High voltage capability
- * Low leakage current



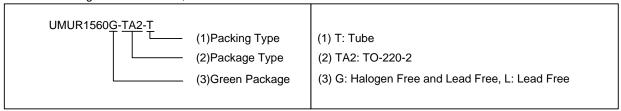


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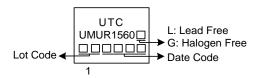
Ordering Number		Dookses	Pin Assignment		Dealine	
Lead Free	Halogen Free	Package	1	2	Packing	
UMUR1560L-TA2-T	UMUR1560G-TA2-T	TO-220-2	K	Α	Tube	

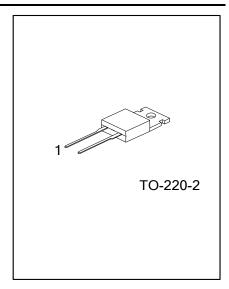
Note: Pin Assignment: A: Anode, K: Cathode

ORDERING INFORMATION



MARKING





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UMUR1560 DIODE

■ ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	RATINGS	UNIT
DC Blocking Voltage	V_R	600	V
Working Peak Reverse Voltage	V_{RWM}	600	V
Peak Repetitive Reverse Voltage	V_{RRM}	600	V
Average Rectified Forward Current (Rated V _R), T _C =145°C	I _{F(AV)}	15	Α
Peak Repetitive Forward Current (Rated V _R , Square Wave, 20kHz), T _C =145°C	I _{FRM}	30	Α
Non-Repetitive Peak Surge Current (Surge Applied at Rated Load Conditions Halfwave, Single Phase, 60Hz)	I _{FSM}	150	Α
Operating Junction Temperature	TJ	-65 ~ +175	°C
Storage Temperature	T_{STG}	-65 ~ +175	ô

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	θ_{JC}	4.25	°C/W
Junction to Ambient	θ_{JA}	75	°C/W

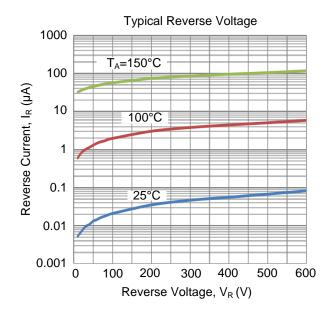
■ ELECTRICAL CHARACTERISTICS

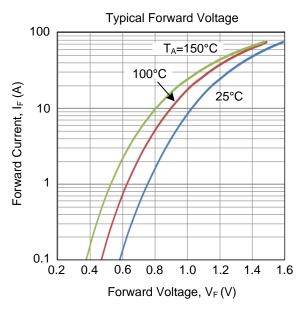
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Instantaneous Forward Voltage (Note 1)	l \/_	I _F =15A, T _C =25°C			1.50	V
		I _F =15A, T _C =150°C			1.20	V
Instantaneous Reverse Current (Note 1)	l lo	Rated DC Voltage, T _C =25°C			10	μΑ
		Rated DC Voltage, T _C =150°C			1000	μΑ
Reverse Recovery Time	t _{RR}	I _F =1.0A, di/dt=50A/µs		60	70	ns

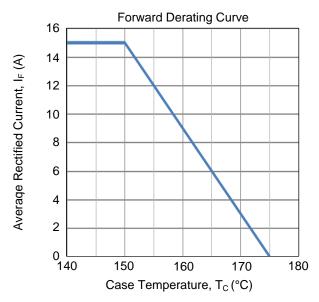
Note: Pulse Test: Pulse Width=300µs, Duty Cycle≤2.0%.

UMUR1560 DIODE

■ TYPICAL CHARACTERISTICS







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