

### UMUR1660

## SWITCHMODE POWER RECTIFIERS

#### DESCRIPTION

The UTC **UMUR1660** contains dual surface mount schottky barrier rectifiers, it uses UTC's advanced technology to provide customers with low leakage reverse current and high voltage capability, etc.

The UTC **UMUR1660** is suitable for inverters and switching power supplies, etc.

#### FEATURES

\* High voltage capability

\* Low leakage reverse current

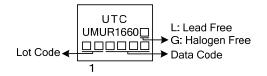
#### SYMBOL

#### ORDERING INFORMATION

Ordering Number		Daakaga	Pin Assignment			Decking	
Lead Free	Halogen Free	Package	1	2	3	3 Packing	
UMUR1660L-TA3-T	UMUR1660G-TA3-T	TO-220	А	К	А	Tube	
UMUR1660L-TF3-T	UMUR1660G-TF3-T	TO-220F	А	К	А	Tube	
UMUR1660L-TF1-T	UMUR1660G-TF1-T	TO-220F1	А	К	А	Tube	
UMUR1660L-TQ2-T	UMUR1660G-TQ2-T	TO-263	А	К	А	Tube	
UMUR1660L-TQ2-R	UMUR1660G-TQ2-R	TO-263	А	К	А	Tape Reel	
Note: Pin Assignment: G: Ga	te D: Drain S: Source						

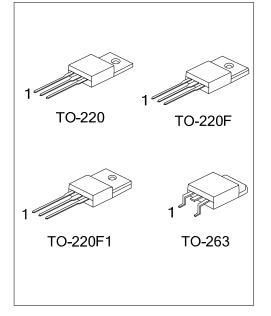
UMUR1660L-TA3-T (1)Packing Type (2)Package Type (3)Green Package	<ul> <li>(1) T: Tube</li> <li>(2) TA3: TO-220, TF3: TO-220F, TF1: TO-220F1 TQ2: TO-263</li> <li>(3) L: Lead Free, G: Halogen Free and Lead Free</li> </ul>
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#### MARKING



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DIODE



#### ■ ABSOLUTE MAXIMUM RATINGS

PARAMETER		SYMBOL	RATINGS	UNIT
DC Blocking Voltage		V <sub>R</sub>	600	V
Working Peak Reverse Voltage		V <sub>RWM</sub>	600	V
Peak Repetitive Reverse Voltage		V <sub>RRM</sub>	600	V
Average Rectified Forward Current	Per Leg		8.0	Α
Total Device, (Rated V <sub>R</sub> ), T <sub>C</sub> =150°C	Total	I <sub>F(AV)</sub>	16	Α
Peak Rectified Forward Current (Rated $V_R$ , Square Wave, 20kHz), T <sub>C</sub> =150°C	Per Leg	I <sub>FM</sub>	16	А
Non-Repetitive Peak Surge Current (Surg Load Conditions Halfwave, Single Phase		I <sub>FSM</sub>	100	А
Storage Temperature		T <sub>STG</sub>	-65~+175	°C
Operating Junction Temperature		TJ	-65~+175	°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 (PER LEG)

	PARAMETER		SYMBOL	RATINGS	UNIT
lunction to Coop	Т	O-220/TO-263	0	2	°C/W
Junction to Case	Т	O-220F/TO-220F1	θις	3.4	°C/W

#### ■ ELECTRICAL CHARACTERISTICS (PER DIODE LEG)

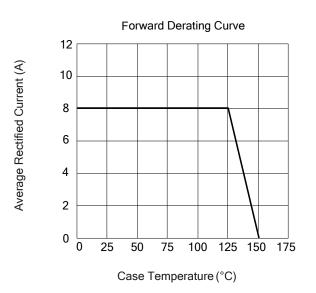
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Instantaneous Forward Voltage (Note)		I <sub>F</sub> =8A, T <sub>C</sub> =25°C			1.50	V
		I <sub>F</sub> =8A, T <sub>C</sub> =150°C			1.20	V
Instantaneous Reverse Current (Note)		Rated dc Voltage, T <sub>C</sub> =25°C			10	μA
		Rated dc Voltage, T <sub>C</sub> =150°C			500	μA
Reverse Recovery Time	top	I <sub>F</sub> =1.0A, di/dt=50A/μs			60	ns
		I <sub>F</sub> =0.5A, I <sub>R</sub> =1.0A, I <sub>REC</sub> =0.25 A			50	ns

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

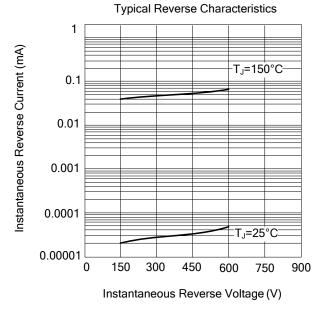


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### TYPICAL CHARACTERISTICS



**Typical Forward Characteristics** 100 Instantaneous Forward Current (A) 150°C 10 25°C 1.0 0. 1.4 1.2 1.6 1.8 0.4 0.8 1 Instantaneous Forward Voltage (V)



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