

UMUR1660

Preliminary

DIODE

# 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

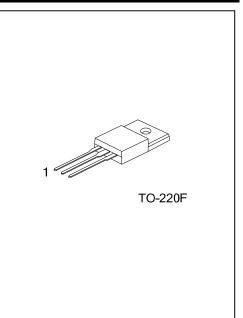
\* Low leakage reverse current

### SYMBOL

### ORDERING INFORMATION

Ordering Number		Deekees	Pin Assignment			Dealista	
Lead Free	Halogen Free	Package	1	2	3	Packing	
UMUR1660L-TF3-T UMUR1660G-TF3-T		TO-220F	А	К	А	Tube	

UMUR1660L- <u>TA3-T</u> (1)Packing Type	(1) T: Tube		
(2)Package Type	(2) TF3: TO-220F		
(3)Lead Free	(3) L: Lead Free, G: Halogen Free		



### 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	А
Total Device, (Rated V <sub>R</sub> ), T <sub>C</sub> =150°C	Total	I <sub>F(AV)</sub>	16	А
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 (Surge Applied at Rated Load Conditions Halfwave, Single Phase, 60Hz)		I <sub>FSM</sub>	100	А
Storage Temperature		T <sub>STG</sub>	-65~+175	°C
Operating Junction Temperature		ТJ	-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
Junction to Case	θ <sub>JC</sub>	3.4	°C/W

#### ELECTRICAL CHARACTERISTICS (PER DIODE LEG)

PARAMETER	SYMBOL	L TEST CONDITIONS		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	tee	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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