



UMUR60120

Preliminary

DIODE

SWITCHMODE POWER RECTIFIERS

DESCRIPTION

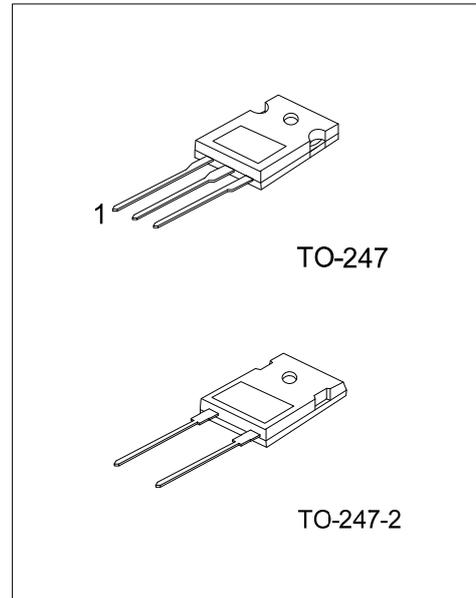
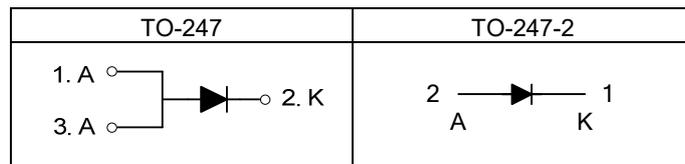
The UTC **UMUR60120** is a switchmode power rectifiers, it uses UTC's advanced technology to provide customers with low forward drop and low leakage current, etc.

The UTC **UMUR60120** is suitable for inverters and switching power supplies, etc.

FEATURES

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

SYMBOL



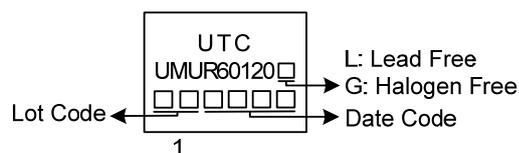
ORDERING INFORMATION

Ordering Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
UMUR60120L-T47-T	UMUR60120G-T47-T	TO-247	A	K	A	Tube
UMUR60120L-T472-T	UMUR60120G-T472-T	TO-247-2	K	A	-	Tube

Note: Pin Assignment: G: Gate D: Drain S: Source

<p>UMUR60120G-T47-T</p>	<p>(1) T: Tube</p> <p>(2) T47: TO-247, T472: TO-247-2</p> <p>(3) G: Halogen Free and Lead Free, L: Lead Free</p>
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MARKING



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

PARAMETER	SYMBOL	RATINGS	UNIT
DC Blocking Voltage	V _R	1200	V
Working Peak Reverse Voltage	V _{RWM}	1200	V
Peak Repetitive Reverse Voltage	V _{RRM}	1200	V
Average Rectified Forward Current	I _{F(AV)}	60	A
Non-Repetitive Peak Surge Current (Surge Applied at Rated Load Conditions Halfwave, Single Phase, 60Hz)	I _{FSM}	240	A
Operating Junction Temperature	T _J	-40 ~ +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

PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Case	θ _{JC}	0.8	°C/W

■ ELECTRICAL CHARACTERISTICS

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Instantaneous Forward Voltage (Note 1)	V _F	I _F =60A, T _C =25°C			2.8	V
		I _F =60A, T _C =150°C			2.4	V
Instantaneous Reverse Current (Note 1)	I _R	Rated DC Voltage, T _C =25°C			10	μA
		Rated DC Voltage, T _C =150°C			500	μA
Reverse Recovery Time	t _{RR}	I _F =1.0A, di/dt=100A/μs		51		ns

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

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