

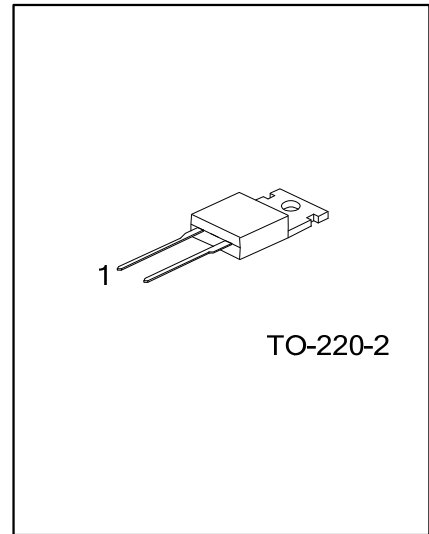
**MBR760**

Preliminary

DIODE**7.5A SCHOTTKY BARRIER
RECTIFIER****DESCRIPTION**

The UTC **MBR760** is a 7.5A schottky barrier rectifier, it uses UTC's advanced technology to provide customers with low power loss, low forward voltage drop, high efficiency and high current capability.

The UTC **MBR760** is suitable for free wheeling, high frequency inverters, polarity protection application.

**FEATURES**

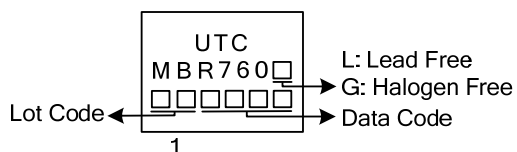
- * Low power loss
- * Low forward voltage drop
- * High current capability
- * High surge capability
- * High efficiency

SYMBOL**ORDERING INFORMATION**

Ordering Number		Package	Pin Assignment		Packing
Lead Free	Halogen Free		1	2	
MBR760L-TA2-T	MBR760G-TA2-T	TO-220-2	K	A	Tube

Note: Pin Assignment: A: Anode K: Cathode

MBR760L-TA2-T	(1)Packing Type	(1) T: Tube
	(2)Package Type	(2) TA2: TO-220-2
	(3)Green Package	(3) L: Lead Free, G: Halogen Free and Lead Free

MARKING

■ ABSOLUTE MAXIMUM RATINGS (T_A=+25°C 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	60	V
Working Peak Reverse Voltage	V _{RWM}	60	V
Peak Repetitive Reverse Voltage	V _{RRM}	60	V
RMS Reverse Voltage	V _{R(RMS)}	42	V
Average Rectified Output Current e(Note 1) T _C =+125°C	I _O	7.5	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	150	A
Voltage Rate of Change (Rated V _R)	dV/dt	10000	V/us
Operating Temperature	T _J	-65~+150	°C
Storage Temperature	T _{STG}	-65~+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 CHARACTERISTICS

PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Case (Note 1)	θ _{JC}	3.5	°C/W

■ ELECTRICAL CHARACTERISTICS (T_A=+25°C unless otherwise specified.)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage Drop	V _{FM}	I _F =7.5A, T _C =25°C			0.72	V
		I _F =7.5A, T _C =125°C			0.67	V
Peak Reverse Current at Rated DC Blocking Voltage	I _{RM}	T _C =25°C			1.0	mA
		T _C =125°C			50	mA
Junction Capacitance (Note 2)	C _J			400		pF

Notes: 1. Thermal resistance junction to case mounted on heatsink
2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC

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