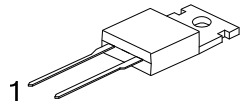
7.5A SCHOTTKY BARRIER RECTIFIER



TO-220-2

■ DESCRIPTION

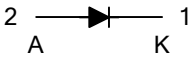
The UTC **MBR760** is a 7.5A schottky barrier rectifier, it uses UTC's advanced technology to provide customers with low power loss, low forward voltage drop, high efficiency and high current capability.

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

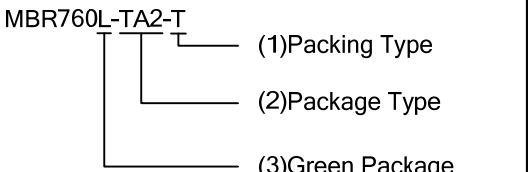
■ SYMBOL



■ 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

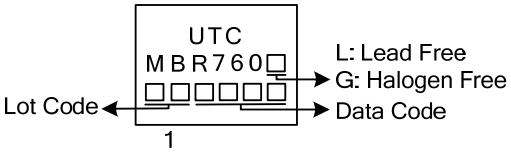


(1) T: Tube

(2) TA2: TO-220-2

(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