

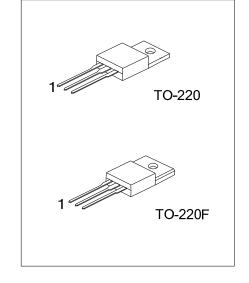
UTC UNISONIC TECHNOLOGIES CO., LTD

MBR2045C DIODE

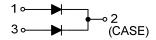
SCHOTTKY BARRIER RECTIFIER DIODES

FEATURES

- * Guard Ring for Transient Protection
- * Low Power Loss, High Efficiency
- * High Surge Capability
- * High Current Capability and Low Forward Voltage Drop



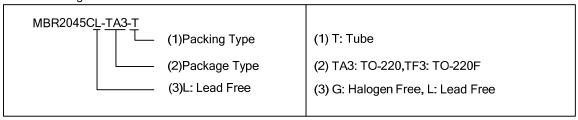
SYMBOL



ORDERING INFORMATION

Order Number		Dookogo	Pin Assignment			Dooking
Lead Free	Halogen Free	Package	1	2	3	Packing
MBR2045CL-TA3-T	MBR2045CG-TA3-T	TO-220	Α	K	Α	Tube
MBR2045CL-TF3-T	MBR2045CG-TF3-T	TO-220F	Α	K	Α	Tube

Note: Pin Assignment: A: Anode K: Cathode



www.unisonic.com.tw 1 of 1 MBR2045C

■ ELECTRICAL CHARACTERISTICS RATINGS (Ta=25°C, unless otherwise specified)

PARAME	ETER	SYMBOL	RATINGS	UNIT
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	45	V
Maximum non-repetitive Peak Reverse Voltage		V_{RM}	45	V
Maximum DC Blocking Voltage		V_R	45	V
Maximum PMS Reverse Voltage		$V_{R(RMS)}$	31.5	V
Average Rectified Output Current (T _C =125°C) (Note 1)		I _{OUT}	20	Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half-Sine-Wave		I _{FSM}	150	Α
Forward Voltage Drop	I _F =20A, T _C =25°C		0.84	V
	I _F =20A, T _C =125℃		0.72	V
	I _F =10A, T _C =25°C	V _{FM}	0.70	V
	I _F =10A, T _C =125℃		0.57	V
Peak Reverse Current	T _C = 25 °C		0.1	mA
at Rated DC Blocking Voltage	T _C =125℃	- I _{RM} -	15	mA
Typical Junction Capacitance (Note 2)		CJ	650	pF
Operating Temperature		TJ	-65 ~ + 150	$^{\circ}\mathbb{C}$
Storage Temperature		T _{STG}	-65 ~ + 150	$^{\circ}\mathbb{C}$

Notes: 1. Thermal resistance junction to case mounted heat sink.

2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

UTC assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all UTC products described or contained herein. UTC products are not designed for use in life support appliances, devices or systems where malfunction of these products can be reasonably expected to result in personal injury. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice.