

MGBR10S45

MOS GATED BARRIER RECTIFIER

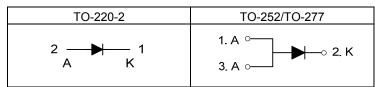
DESCRIPTION

The UTC MGBR10S45 is a surface mount mos gated barrier rectifier, it uses UTC's advanced technology to provide customers with low forward voltage drop and high switching speed, etc.

FEATURES

* Super low forward voltage drop * High switching speed

SYMBOL



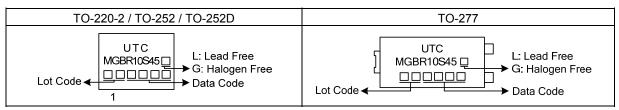
ORDERING INFORMATION

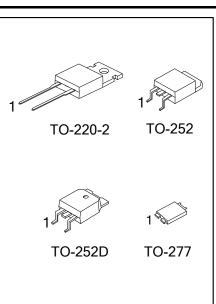
Ordering Number		Dookago	Pin Assignment			Deaking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
MGBR10S45L-TA2-T	MGBR10S45G-TA2-T	TO-220-2	К	Α	-	Tube	
MGBR10S45L-TN3-R	MGBR10S45G-TN3-R	TO-252	Α	К	Α	Tape Reel	
MGBR10S45L-T27-R	MGBR10S45G-T27-R	TO-277	Α	К	Α	Tape Reel	
Natar Dia Antinamanta An Anada - Ka Commany Cathada							

Note: Pin Assignment: A: Anode K: Common Cathode

MGBR10S45L-TA2-T (1)Packing Type (2)Package Type	 (1) T: Tube, R: Tape Reel (2) TA2: TO-220-2, TN3: TO-252, TND: TO-252D T27: TO-277
(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, defate current by 20 %.							
PARAMETER	SYMBOL	RATINGS	UNIT				
DC Blocking Voltage	V _{RM}	45	V				
Working Peak Reverse Voltage	V _{RWM}	45	V				
Peak Repetitive Reverse Voltage	V _{RRM}	45	V				
RMS Reverse Voltage	V _{R(RMS)}	32	V				
Average Rectified Output Current T _C =140°C	lo	10	А				
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	150	А				
Operating Junction Temperature	TJ	-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 Ambient	TO-220-2		60		
	TO-252 TO-252D	θ _{JA}	110	°C/W	
	TO-277		73 (Note 3)		
	TO-220-2		2		
Junction to Case	TO-252 TO-252D	θ _{JC}	2.5	°C/W	
	TO-277		13 (Note 3)		

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

PARAMETER	SYMBOL TEST CONDITIONS		MIN	TYP	MAX	UNIT
Reverse Breakdown Voltage (Note 1)	V _{(BR)R}	I _R =0.45mA	45			V
Forward Voltage Drop	VEM	I _F =10A, TJ=25°C			0.48	V
		I _F =10A, T _J =125°C			0.43	V
Leakage Current (Note 1)	RM	V _R =45V, T _J =25°C		50	500	μA
		V _R =45V, T _J =125°C		12	40	mA

Notes: 1. Short duration pulse test used to minimize self-heating effect.

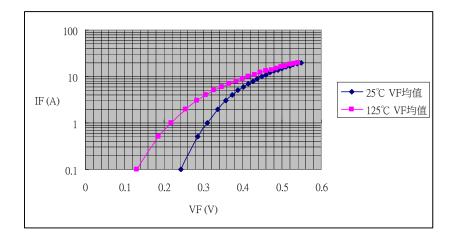
2. Thermal resistance junction to case mounted on heatsink.

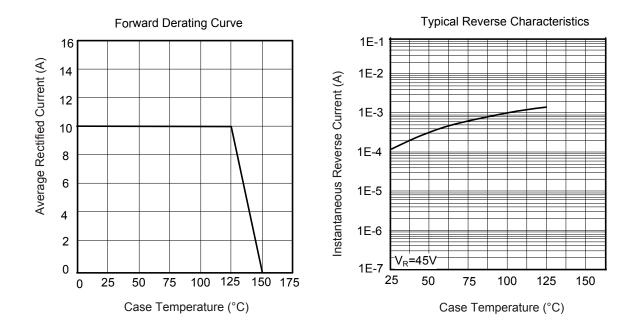
3. Mounted on an FR4 PCB, single-sided copper, with 100cm² copper pad area.



MGBR10S45

TYPICAL CHARACTERISTICS





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