MGBR30V150C

DUAL MOS GATED BARRIER RECTIFIER

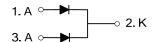
DESCRIPTION

The UTC **MGBR30V150C** is a dual mos gated barrier rectifiers, it uses UTC's advanced technology to provide customers with low forward voltage drop and high switching speed, etc.

■ FEATURES

- * Very low forward voltage drop
- * High switching speed

■ SYMBOL

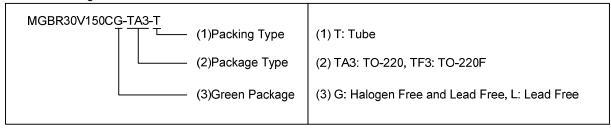


TO-220F

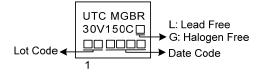
■ ORDERING INFORMATION

Ordering Number		Daakaga	Pin Assignment			Dooking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
MGBR30V150CL-TA3-T	MGBR30V150CG-TA3-T	TO-220	Α	K	Α	Tube	
MGBR30V150CL-TF3-T	MGBR30V150CG-TF3-T	TO-220F	Α	K	Α	Tube	

Note: Pin Assignment: A: Anode K: Cathode



■ MARKING



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MGBR30V150C DIODE

■ ABSOLUTE MAXIMUM RATINGS (PER LEG) (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_{RM}	150	V
Working Peak Reverse Voltage		V_{RWM}	150	V
Peak Repetitive Reverse Voltage		V _{RRM} 150		V
Average Rectified Output Current Per	Per Leg		15	Α
Device	Total	I _O	30	Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load		I _{FSM}	200	Α
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 (PER LEG)

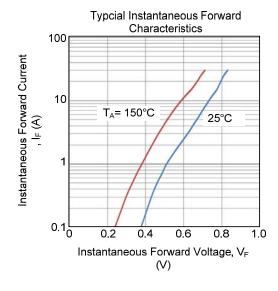
PARAMETER		SYMBOL	RATINGS	UNIT
Tomical Theorem I Desistance	TO-220	0	2	°C/W
Typical Thermal Resistance	TO-220F	$\theta_{ extsf{JC}}$	4	°C/W

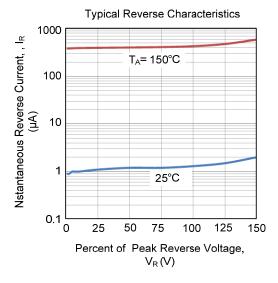
■ ELECTRICAL CHARACTERISTICS (PER LEG) (T_A =25°C unless otherwise specified.)

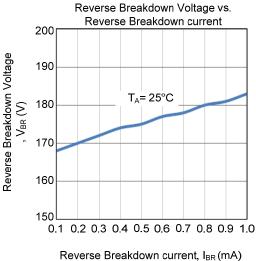
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Reverse Breakdown Voltage	$V_{(BR)R}$	I _R =0.50mA	150			V
Forward Voltage Drop	I VEM	I _F =15A, T _J =25°C			0.85	V
		I _F =15A, T _J =125°C			0.79	V
Leakage Current	DM	V _R =150V, T _J =25°C			100	μA
		V _R =150V, T _J =125°C			20	mA

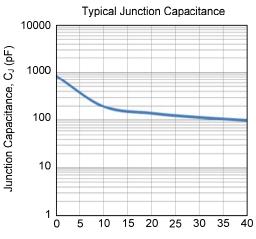
Note: Pulse Test: Pulse width $\leq 300 \mu s$, Duty cycle $\leq 2\%$.

■ TYPICAL CHARACTERISTICS









Percent of Peak Reverse Voltage, VR (V)

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