

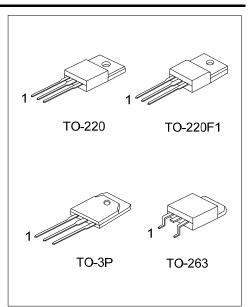
MBR30150C SCHOTTKY BARRIER RECTIFIER

FEATURES

- * 30 amps total (15 amps per diode leg)
- * Guard ring for transient protection
- * Low forward voltage drop
- * High surge capability
- * Low power loss/High efficiency

SYMBOL





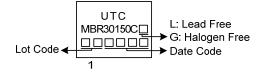
ORDERING INFORMATION

Ordering Number		Deelvere	Pin Assignment			Decking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
MBR30150CL-TA3-T	MBR30150CG-TA3-T	TO-220	Α	К	Α	Tube	
MBR30150CL-TF1-T	MBR30150CG-TF1-T	TO-220F1	Α	К	Α	Tube	
MBR30150CL-TQ2-T	MBR30150CG-TQ2-T	TO-263	Α	К	Α	Tube	
MBR30150CL-TQ2-R	MBR30150CG-TQ2-R	TO-263	Α	К	Α	Tape Reel	
MBR30150CL-T3P-T	MBR30150CG-T3P-T	TO-3P	Α	К	Α	Tube	
Note: Pin Assignment: A: Anod	e K: Cathode						

Note: Pin Assignment: A: Anode K: Cathode

MBR30150CG-TA3-T	(1)Packing Type (2)Package Type (3)Green Package	 (1) T: Tube, R: Tape Reel (2) TA3: TO-220, TF1: TO-220F1, TQ2: TO-263 T3P: TO-3P (3) G: Halogen Free and Lead Free, L: Lead Free
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MARKING



DIODE

■ ABSOLUTE MAXIMUM RATINGS (T_A=25°C, unless otherwise specified)

PARAMETER		SYMBOL	RATINGS	UNIT
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	150	V
Maximum non-repetitive Peak Reverse Voltage	ge	V _{RM}	150	V
Maximum DC Blocking Voltage		V _R	150	V
Average Ferryard Destified Output Current	Per Leg		15	А
Average Forward Rectified Output Current	otal	I _O	30	А
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half-Sine-Wave		I _{FSM}	200	А
Junction Capacitance (Note 4)		CJ	300	pF
Operating Temperature		TJ	-65 ~ +175	°C
Storage Temperature		T _{STG}	-65 ~ +175	°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 RESISTANCES CHARACTERISTICS

PARAMETER		SYMBOL	RATINGS	UNIT	
Junction to Ambient	TO-220/TO-263 TO-220F1	θ _{JA}	60	°C/W	
	TO-3P		29		
Junction to Case	TO-220/TO-263	θ _{JC}	2		
	TO-220F1		3.3	°C/W	
	TO-3P		1.5		

ELECTRICAL CHARACTERISTICS (Note 2)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Instantaneous Forward Voltage Drop		I _F =15A, T _C =25°C			0.90	V
		I _F =15A, T _C =125°C			0.85	V
		I _F =30A, T _C =25°C			1	V
		I _F =30A, T _C =125°C	1 0.95	V		
Instantaneous Reverse Current	Ь	Rated DC Voltage, T _C =25°C			500	μA
		Rated DC Voltage, T _C =125°C			20	mA

Notes: 1. 2.0µs Pulse Width, f = 1.0 KHz.

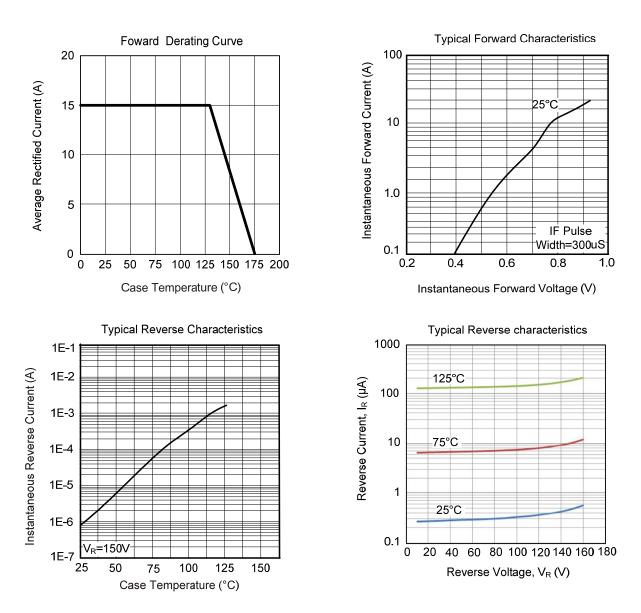
2. Pulse Test: Pulse Width = 300 μ s, Duty Cycle ≤ 2.0%.

3. Applied V_R = 4.0V and f = 1.0 MHz.



MBR30150C

TYPICAL CHARACTERICS



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