

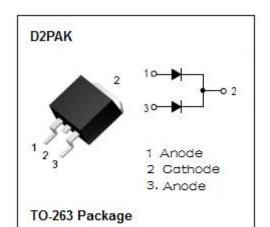
Schottky Barrier Rectifier

INCHANGE SEMICONDUCTOR

MBRB30120CT

FEATURES

- · Plastic material used carriers Unerwriter Laboratory
- Metal silicon rectifier, majonty carrier conduction
- Low Power Loss, High Efficiency
- · Guard ring for transient protection
- High Surge Capability, High Current Capability
- RoHS product
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

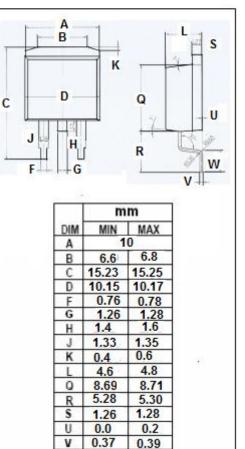


APPLICATIONS

• For use in low voltage ,high frequency inverters,free wheeling and polarity protection applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM} Vrwm Vr	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	120	V
I _{F(AV)}	Average Rectified Forward Current	erage Rectified Forward Current 30	
IFSM	Nonrepetitive Peak Surge Current 8.3ms single half sine-wave superimposed on rated load conditions	200	A
TJ	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~175	°C
dv/dt	Voltage Rate of Change (Rated V_R)	1000	V / µ s



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W

2.80

2.82



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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
Rth j-c	Thermal Resistance, Junction to Case	2.0	°C /W

ELECTRICAL CHARACTERISTICS (Pulse Test: Pulse Width=300 μ s,Duty Cycle \leq 1%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
VF	Maximum Instantaneous Forward Voltage	I _F = 15A ; Tc= 25 ℃	0.95	v
		I _F = 15A ; Tc= 125℃	0.92	
I _R	Maximum Instantaneous Reverse Current	V _R = V _{RWM;} Tc= 25℃	1.0	mA
		V _R = V _{RWM;} Tc= 125°С	15	

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