

MBR20200CG

REV.-1, Jul-2018, KTHB26

SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE - 200 Volts FORWARD CURRENT - 20 Amperes

FEATURES

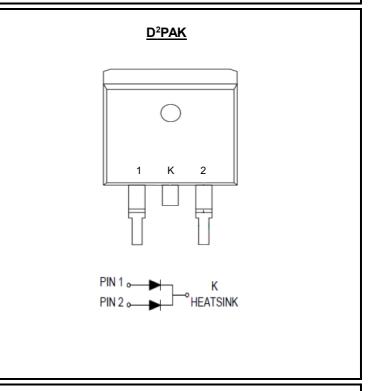
- Metal of silicon rectifier, majority carrier conduction
- · Guard ring for transient protection
- · Low power loss, high efficiency
- High surge & current capability, low V_F
- Qualified according to JEDEC

APPLICATION

For use in high frequency switched mode power supplies

MECHANICAL DATA

- Case Material: "Green" Molding compound, UL flammability classification 94V- 0, (No Br. Sb. Cl.) "Halogen-free"
- Case: TO-263 molded plastic
- · Lead Free Finish, RoHS Compliant
- Moisture Sensitivity Level 3 per J-STD-020
- Marking : MBR20200CG
- Weight: 1.6 grams (Approximate)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

ABSOLUTE RATINGS

PARAMETER		SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage		V_{RRM}	200	V
Maximum DC blocking voltage		V_{DC}	200	V
Maximum Average rectified forward current @Tc=130°C		I _F	20	Α
Peak forward surge 8.3ms single half sine-wave superimposed on rated load		I _{FSM}	200	А
Operating ant Storage temperature range		T _J , T _{STG}	-55 ~ +175	°C

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CONDITION		SYMBOL	TYP	MAX	UNIT
Forward voltage(Note 1)	I _F =10A	T _J = 25°C T _J = 125°C	V _F	 0.72	0.93 0.75	V
Reverse leakage current	V _R =200V	T _J = 25°C T _J = 125°C	I _R	 0.32	10 6	uA mA
Typical junction capacitance(Note 2)			C _j	140		pF

THERMAL CHARACTERISTICS

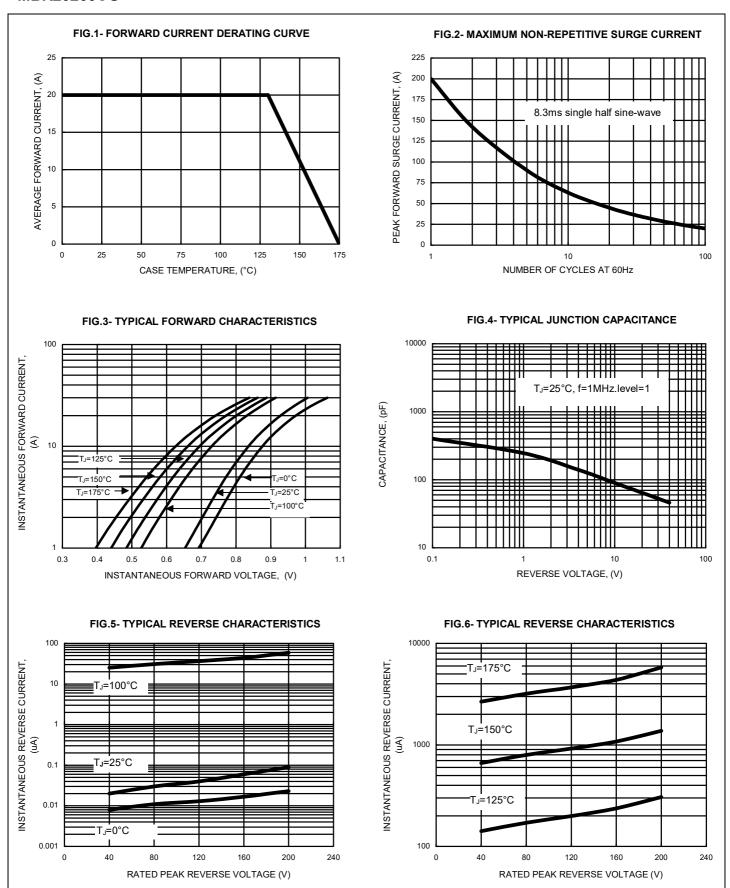
PARAMETER	SYMBOL	ТҮР	UNIT
Typical thermal resistance(Note 3.4)	RthJc	3	°C/W
Typical thermal resistance(Note 3,4)	RthJ⊥	2	C/VV

Note:

- (1) 300uS pulse width 2% duty cycle
- (2) Measured at 1.0MHz and reverse voltage of 4.0V DC.
- (3) Thermal resistance test performed in accordance with JESD-51.
- (4) The unit mounted on fin-type heatsink 40mm x 23mm x 15.8mm

RATING AND CHARACTERISTIC CURVES MBR20200CG

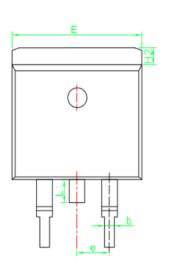


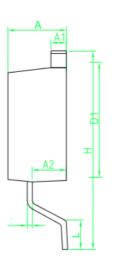




Package Outline Dimension:

TO-263 (E type)





D ² PAK (E type)						
DIM	MIN	MAX				
Α	4.30	4.80				
A1	1.12	1.42				
A2	2.54	2.84				
b	0.67	1.00				
С	0.29	0.52				
D1	8.40	9.00				
Е	9.80	10.46				
е	2.54 BSC					
Н	14.00	16.00				
H2	1.12	1.45				
L	1.50	3.10				
L1	1.45	1.70				
All Dimensions in millimeter						

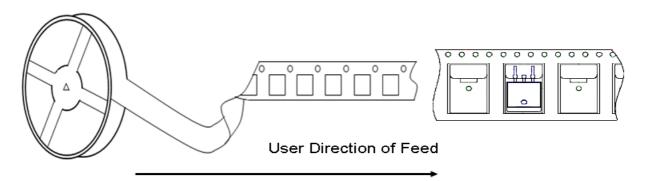
Packaging Information:

DEVICE	Units / Tape	Tapes / Inner Box	Box size (mm)	Units / Inner Box	Inner Box / Carton Box	Carton size (mm)	Units / Carton Box
TO-263	000	4	,		Carton box	, ,	
(E type)	800	1	350X338X50	800	5	385X358X303	4K

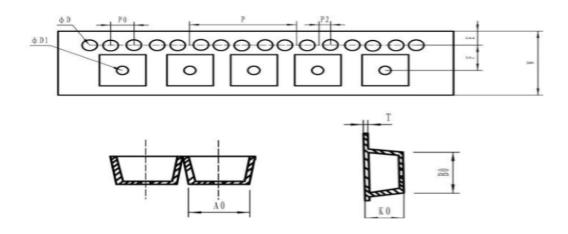


Embossed Carrier Dimensions Information

Polar Units



TO - 263 (E type)



TAPE SIZE	D	D1	P0	Р	P2	E	UNIT
	1.5+0.2/-0.1	1.5+0.2/-0.1	4.0±0.2	16.0±0.2	2.0±0.2	1.75±0.2	
24mm	A0	Т	K0	B0	F	W	mm
	10.9±0.2	0.35±0.05	4.9±0.2	16.0±0.2	11.5±0.2	24.0±0.3	



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