



- Positive temperature coefficient
- Temperature-independent switching
- Maximum working temperature at 175 °C
- Unipolar devices and zero reverse recovery current
- Zero forward recovery current
- Essentially no switching losses
- Reduction of heat sink requirements
- High-frequency operation
- Reduction of EMI

Typical applications are in power factor correction(PFC), solar inverter, uninterruptible power supply, motor drives, photovoltaic inverter, electric car and charger.

- : TO-263
- : Tin plated leads
- : As marked

■ (T_c=25 Unless otherwise specified

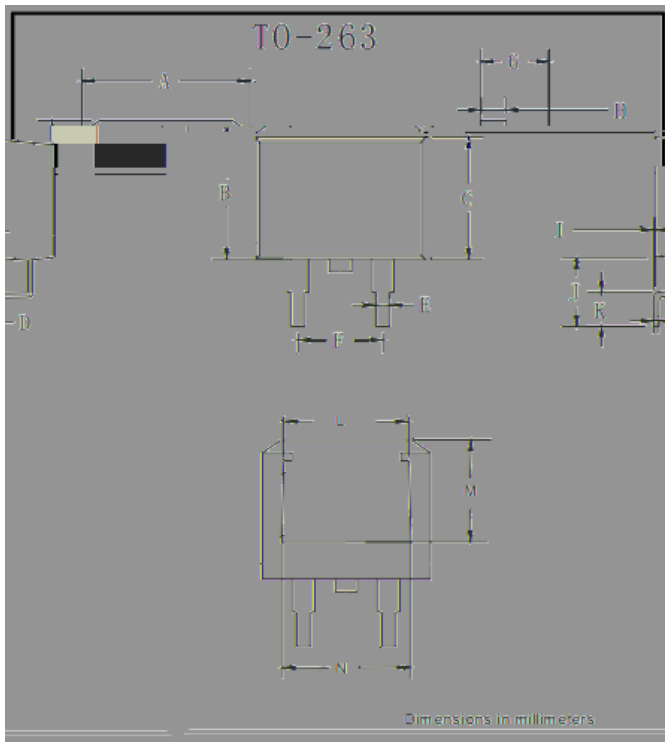
Device marking code			D112020BXGG2
Reverse voltage (repetitive peak) @ T _j =25°C	V _{RRM}	V	1200
Reverse voltage (Surge Peak) @ T _j =25°C	V _{RSM}	V	1200
Reverse voltage (DC) @ T _j =25°C	V _{DC}	V	1200
Continuous forward current @ T _c =25°C T _c =135°C T _c =141°C	I _F	A	56 25 20
Non-repetitive peak forward surge current @ T _c =25°C, tp=10ms, Half Sine Wave	I _{FSM}	A	160
Power Dissipation@ T _c =25°C T _c =110°C	P _{TOT}	W	214 92
i ² t Value@ T _c =25°C ,tp=10ms	∫i ² dt	A ² S	128

Operating junction and Storage temperature t



Forward voltage drop	V_F	V	$I_F=20A, T_J=25^{\circ}C$	1.34	1.55
			$I_F=20A, T_J=175^{\circ}C$	1.86	2.70
Reverse leakage current	I_R	μA	$V_R=1200V, T_J=25^{\circ}C$	0.5	25

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Dim	Min	Max	
A	9.5	10.5	A
B	9.7	10.5	B
C	8.4	9.0	C
D	0.28	0.64	D
E	0.68	0.94	E
F	4.55	5.6	F
G	4.04	5.10	G
H	1.14	1.4	H
I	0	0.2	I
J	4.9	6.05	J
K	1.79	2.79	K
L	7.3	7.9	L
M	6.2	6.8	M
N	7.6	8.2	N



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