

DESCRIPTION

- Fast switching
- · Low Switching Losses

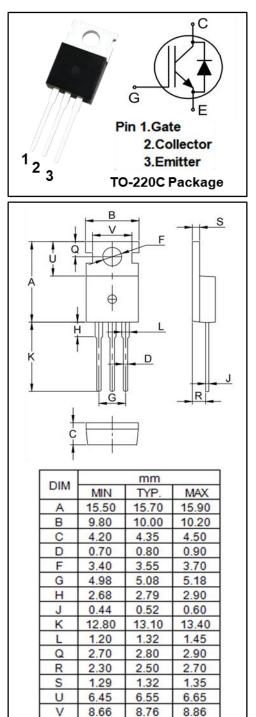
APPLICATIONS

- Motor controls
- Inverter
- · SMPS

ABSOLUT			
SYMBOL	PARAMETER	VALUE	UNIT
V _{CES}	Collector-Emitter Voltage	1200	V
V _{GES}	Gate-Emitter Voltage	±20	V
Ic	Collector Current-Continuous @ $T_c=25^{\circ}C$	6.2	А
lc	Collecto r Current-Continuous @ T_c = 100 °C	2.8	А
P _D	Power Dissipation @T _c =25℃	62	W
Tj	Operating Junction Temperature	-55~150	°C
T _{stg}	Storage Temperature Range	-55~150	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ		
R _{th j-c}	Thermal Resistance,Junction to Case	2.0	°C/W	





ISG2066 eq SGP02N120

IGBT

SYMBOL	PARAMETER	CONDITIONS	MIN	TYPE	МАХ	UNIT
V _{CES}	Collector-Emitter Breakdown Voltage	V _{GE} =0, I _C = 0.1mA	1200	-	-	V
$V_{\text{GE(th)}}$	Gate-Emitter Threshold Voltage	V_{GE} = V_{CE} , I_C = 0.1mA	3	-	6	V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 2A, V _{CE} = 15V, T _C =25℃	-	-	3.6	V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 2A, V _{CE} = 15V, T _C =125℃	-	-	4.3	V
I _{CES}	Zero Gate Voltage Collector Current	V _{CE} =1200V, V _{GE} =0	-	-	25	uA
Iges	Gate-Emitter Leakage Current	V_{GE} =±20V, V_{CE} =0	-	-	±200	nA
V _F	Diode Forward Voltage	IF=2.8A	-	-	2.2	V

STATIC CHARACTERISTICS (T_J = 25 °C unless otherwise specified)

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