WR06S ṂṂ Ŀ ʌ ɹ ɷ ǁ ǜ ɥ ˥ Insulated-Gate Bipolar Transistor in a TO-3P Plastic Package.

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Low gate charge,, Low saturation voltage ,Positive temperature coefficient, RoHS product.

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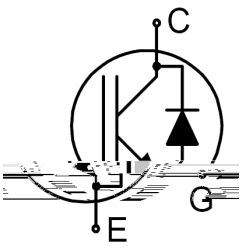
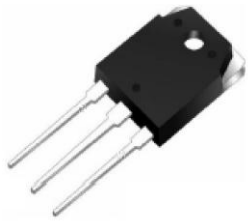
General purpose inverter, Frequency converters, Induction Heating(IH), Uninterrupted Power Supply(UPS).



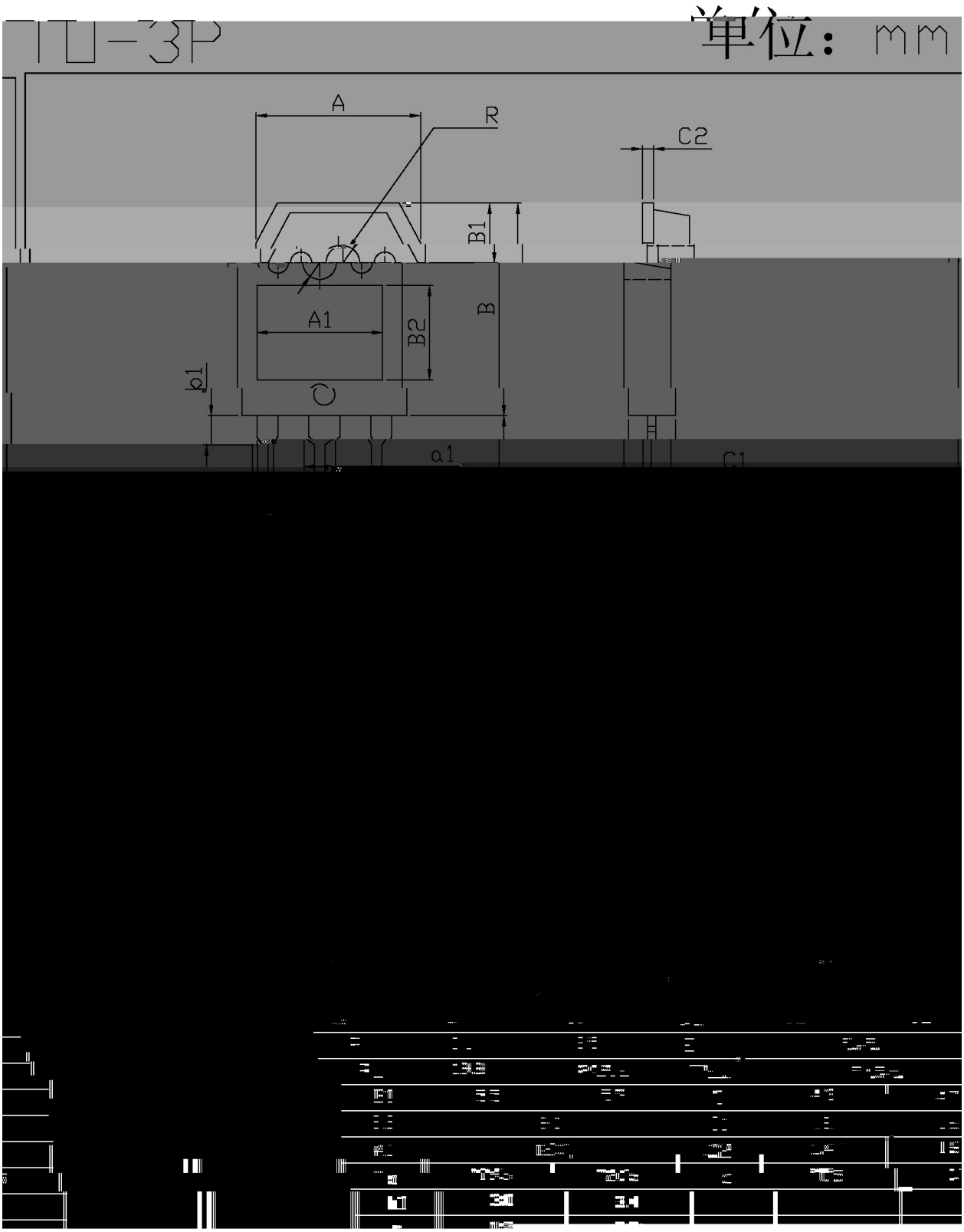


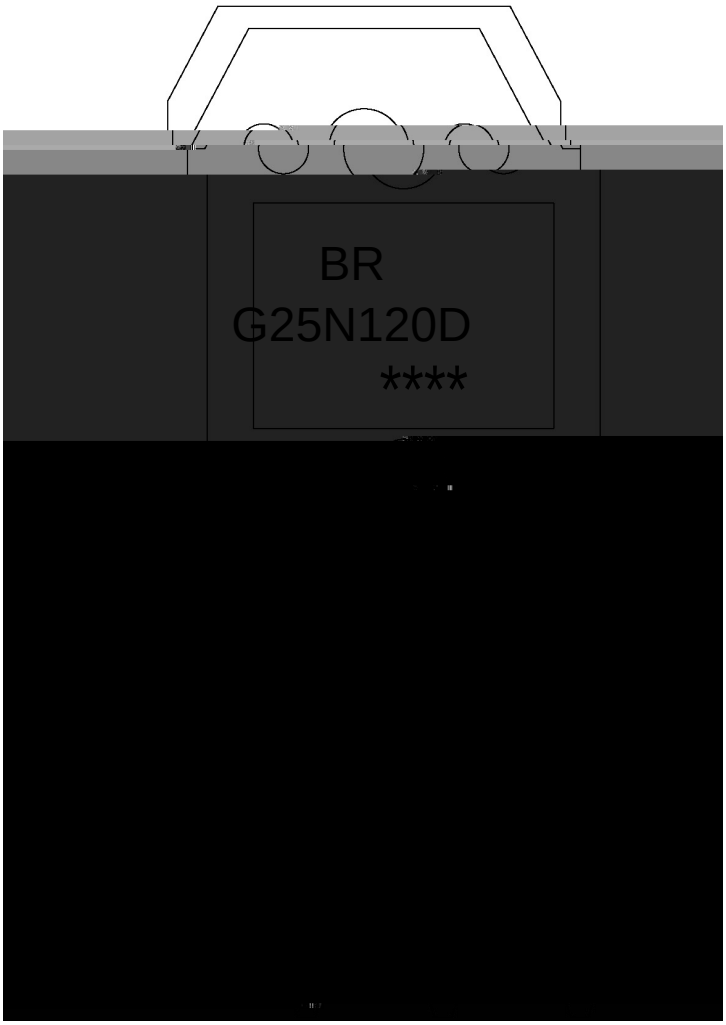
PIN1 χ Gate PIN 2 χ Collector PIN 3 χ Emitter

ð м ˧ ب ˝ See Marking Instructions.

v ″Ω Parameter	ϒ N Symbol	″Ω Θ Rating	D Ч Unit
Collector-emitter voltage	V_{CES}	1200	V
Gate-emitter voltage	V_{GES}	±20	V
Collector current	I_C	50	A
Collector current@T_C=100		25	A
Collector peak current, T_P limited by T_{JMAX}			
Diode forward current@T_C=100	I_F	25	A
Diode maximum forward current	I_{FM}	75	A
Power dissipation(T_c=100)	PD		
Operating junction and storage temperature range	$T_{J,}$ T		

v Ώ Parameter	ɬ N Symbol	⅃ ⁝ ˣ Ţ Test Conditions	ω ṇ Ö Min	Ɛ ʒ Ö Typ	ω ᶻ Ö Max	D Ɉ Unit
Turn-on delay time	$t_{d(ON)}$	V_{CE}=600V I_C=25A R_G=10 V^{GE}=15V Inductive Load	-	42	-	ns
Rise time	t_r		-	36	-	
Turn-off delay time	$t_{d(OFF)}$		-	224	-	
Fall time	t_f		-	314	-	
Turn-On Switching Loss	E_{on}		-	1.1	2.2	mJ
Turn-Off Switching Loss	E_{off}		-	1.3	1.5	
Total Switching Loss	E_{ts}		-	2.2	3.6	
Total gate charge	Q_G	V_{CE}=600V I_C=25A V_{GE}=15V	-	177	274	nC
Gate-emitter charge	Q_{G-E}		-	16	26	
Gate-collector charge	Q_{G-C}		-	61	94	
Diode forward voltage	V_F	I_F=25A	-	1.5	2.7	V
Reverse recovery time	Trr	I_F=25A di/dt=200A/ S	-	535	585	ns
Diode Peak Reverse Recovery Current	Irr		-	43	85	A
Reverse recovery charge	Qrr		-	13	15	uC


TO-3P
单位：mm
A
R
C2
B1
B
A1
B2
b1
C
a1
H
C1



EU:	
J58Q453G	

Note:

BR:	Company Code.
G25N120D:	Product Type.
****:	Lot No. Code, code change with Lot No.



ب ˝ χ

1 ⺊ ♬ □ ỷ 25 Ḱ 150 ⺘ ⺀ `H ⺛ 60 Ḱ 90sec;

2 Š Ö □ ỷ 255 ° 5 ⺘ ⺀ `H ⺛ ˋY ⺈ ⺮ 5 ° 0.5sec;

3 ⺀ ˙ ⺈ ˛ ɔ ⺕ ỷ ⺮ 2 Ḱ 10 ⺘ /sec.

Note:

1.Preheating:25~150 ⺘ , Time:60~90sec.

2.Peak Temp.:255 ° 5 ⺘ , Duration:5 ° 0.5sec.

3. Cooling Speed: 2~10 ⺘ /sec.

□ ỷ χ 270 ° 5 ⺘ `H ⺛ χ 10 ° 1 sec. Temp.:270±5 Time:10±1 sec

˘ ˥ ˥ ⺊ / TUBE

Package Type	Units					Dimension (unit mm^3)		
	Units/Tube /	Tubes/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Tube	Inner Box	Outer Box
TO-3P	30	15	450	5	2250	497.5×46×8	555×164×50	575×290×180