

Rev.D Oct.-2015

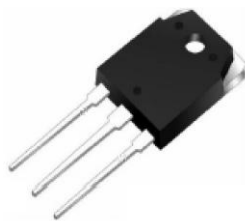
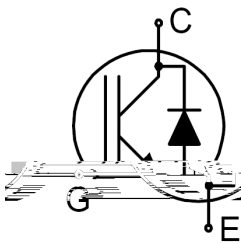
WR06S

Insulated-Gate Bipolar Transistor in a TO-3P Plastic Package.

UrKV

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

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



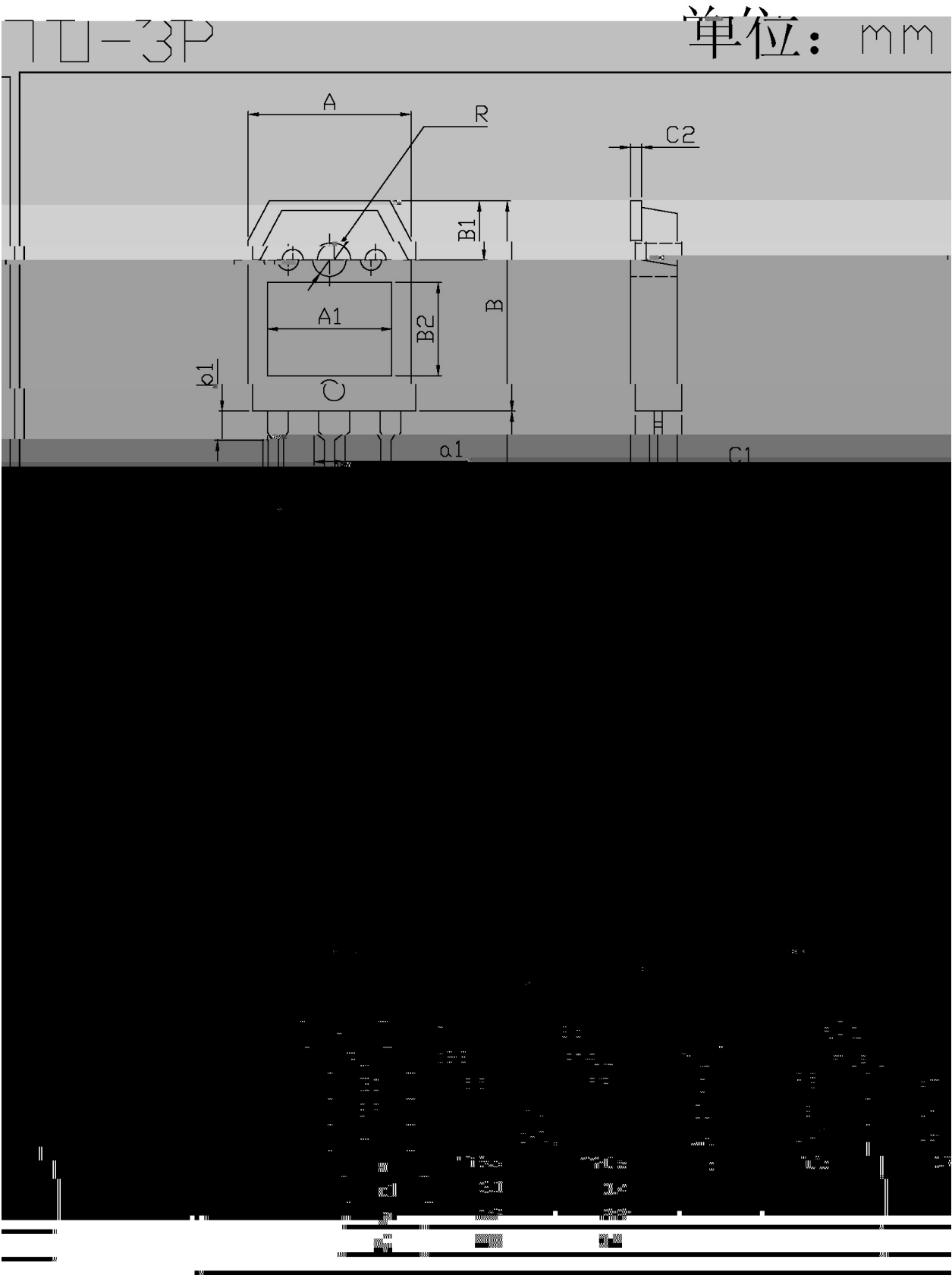
PIN1 Gate PIN 2 Collector PIN 3 Emitter

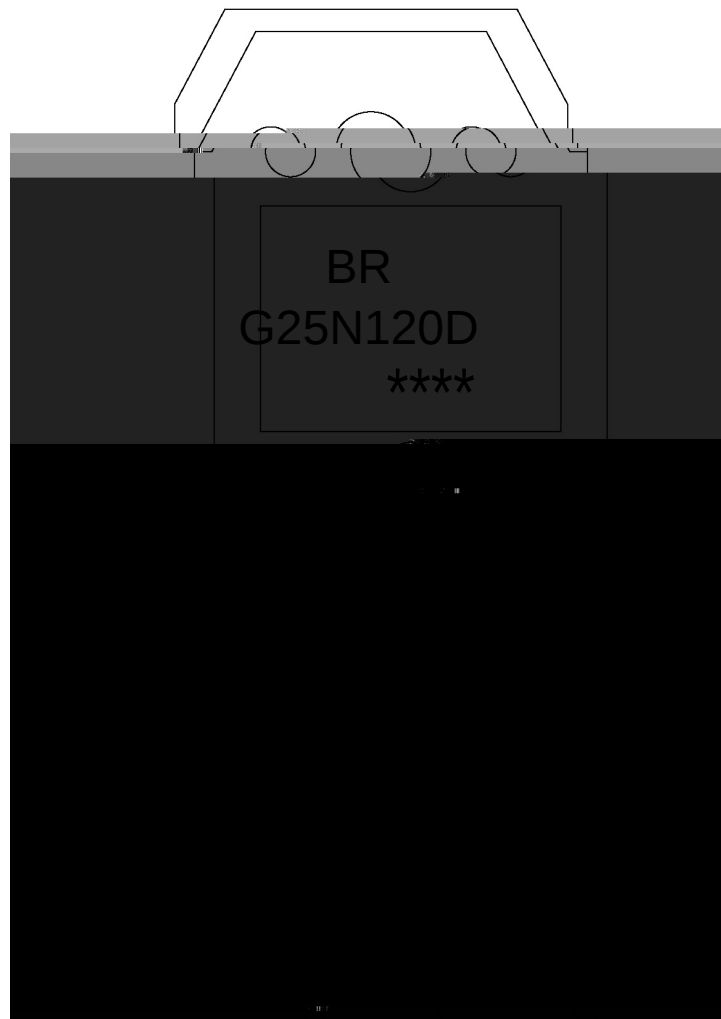
See Marking Instructions.

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Parameter	Symbol	Rating	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_{EM}	75	A
Power dissipation($T_c=100$)	P_D		
Operating junction and storage temperature range	T_J, T		

Parameter	Symbol	Test Conditions	Min	Typ	Max	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	T_{rr}	$I_F=25A$ $di/dt=200A/S$	-	535	585	ns
Diode Peak Reverse Recovery Current	I_{rr}		-	43	85	A
Reverse recovery charge	Q_{rr}		-	13	15	uC





EU:

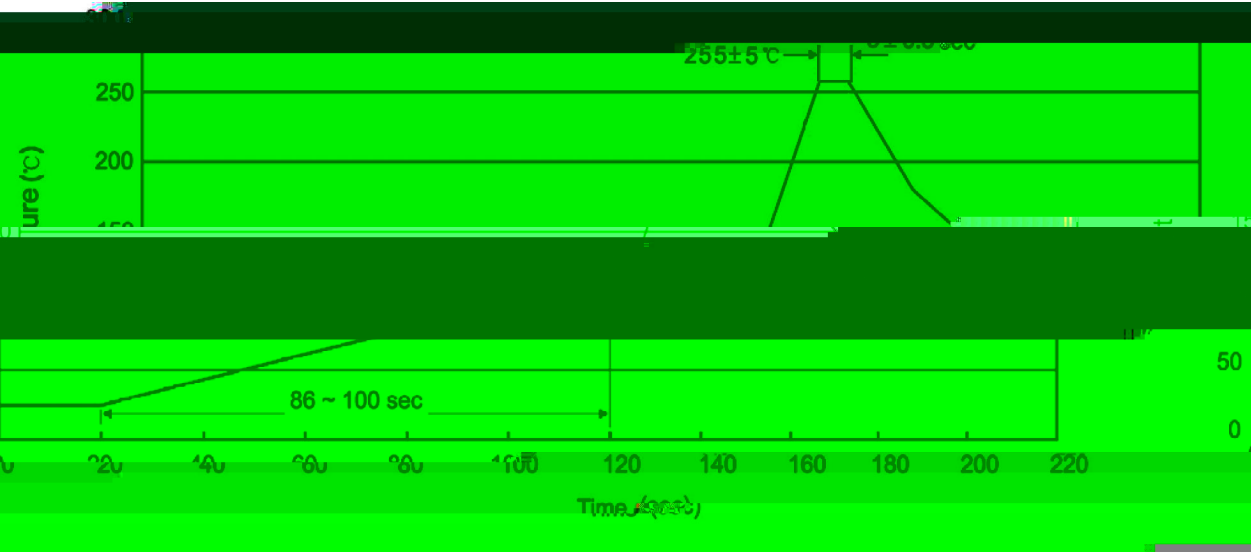
J58Q453G

Note:

BR: Company Code.

G25N120D: Product Type.

****: Lot No. Code, code change with Lot No.



- 1

25 150%

60 90sec;

2

255 ± 5%

5 ± 0.5sec;

3

2 10%/sec.
- Note:

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

2.Peak Temp.:255 ± 5%, Duration:5 ± 0.5sec.

3. Cooling Speed: 2~10%/sec.

270 ± 5%

10 ± 1 sec.

Temp.:270±5

Time:10±1 sec

/ 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