

Rev.D Oct.-2015

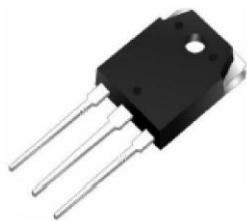
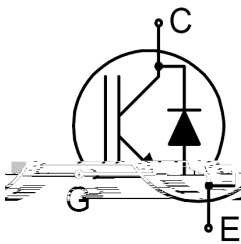
WR06S M M A I 2 II U y 1 Insulated-Gate Bipolar Transistor in a TO-3P Plastic Package.

$$H_1 \parallel \mathcal{D}^* \square \dot{y} \vee \Omega \quad H_1 \supset \text{я} \quad \text{UrKV} \text{ f } \beta$$

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).



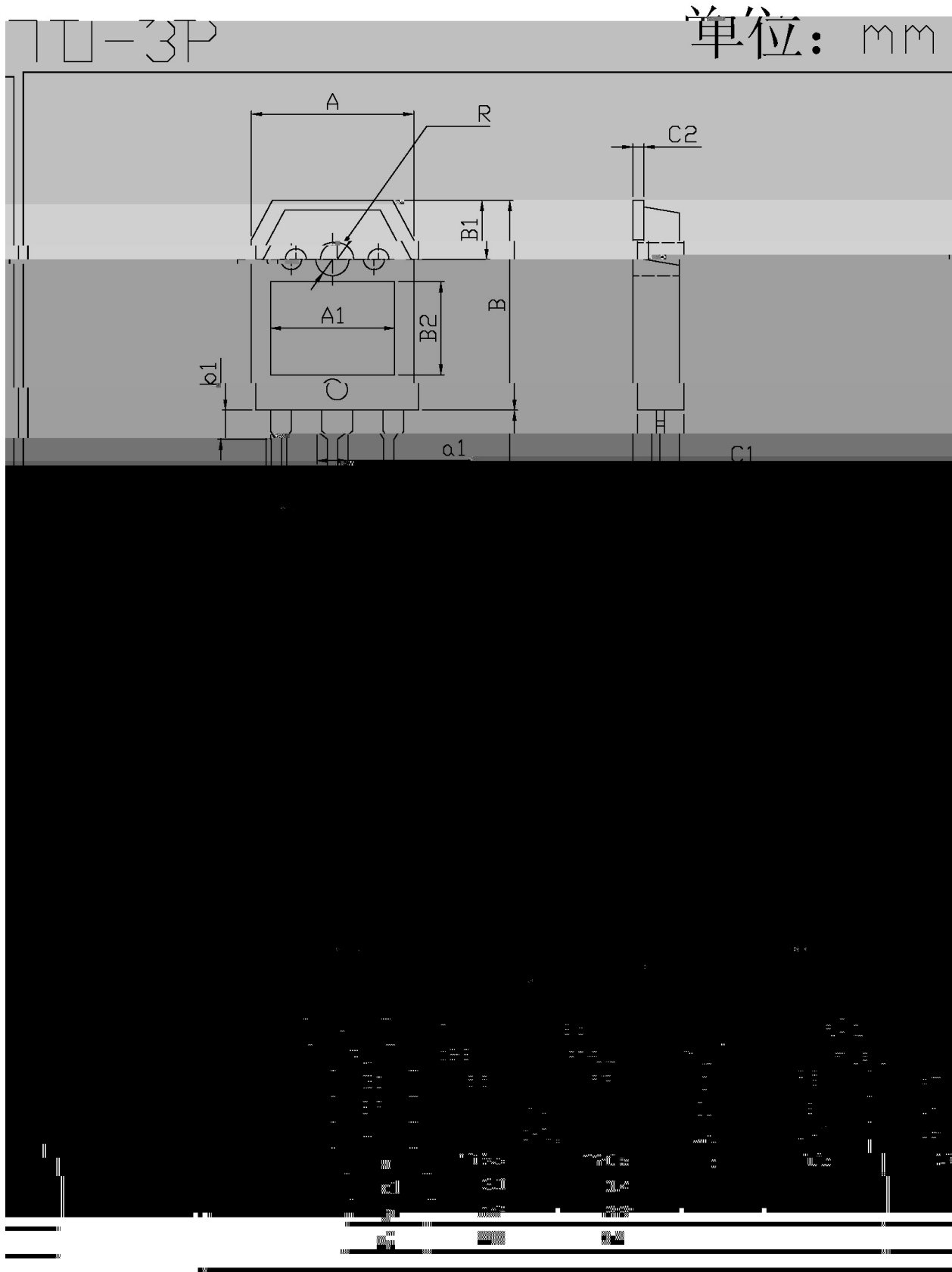
PIN1 $\times$ Gate PIN 2 $\times$ Collector PIN 3 $\times$ Emitter

M 7 " 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





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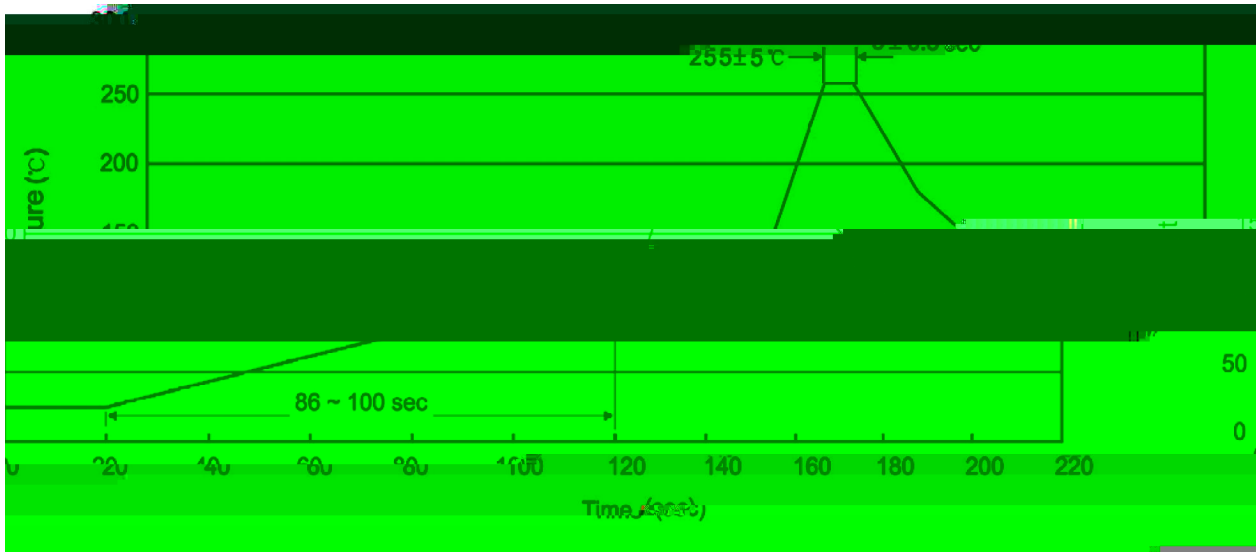
$$\mathbb{H} \quad \mathbb{F} \quad \beta \quad \mathbb{Z} \quad \mathbb{N}$$
$$\mathbb{H} \cdot f \tilde{\eta}^N \Gamma_b \quad | \quad \cdot f \tilde{\eta}^N \Psi \rho$$

Company Code.

Product Type.

Lot No. Code, code change with Lot No.

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1. Preheating: 25~150 °C, Time: 60~90sec;
2. Peak Temp.: 255±5 °C, Duration: 5±0.5sec;
3. Cooling Speed: 2~10 °C/sec.

Note:

1. Preheating: 25~150 °C, Time: 60~90sec.
2. Peak Temp.: 255±5 °C, Duration: 5±0.5sec.
3. Cooling Speed: 2~10 °C/sec.

□ 270° ± 5 °C, Time: 10 ± 1 sec. Temp.: 270±5 °C

1 γ / 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