

WR0553I ММ QSQ ꞤМ ꝑ s ll ꝑ Silicon NPN transistor in a TO-220F Plastic Package.

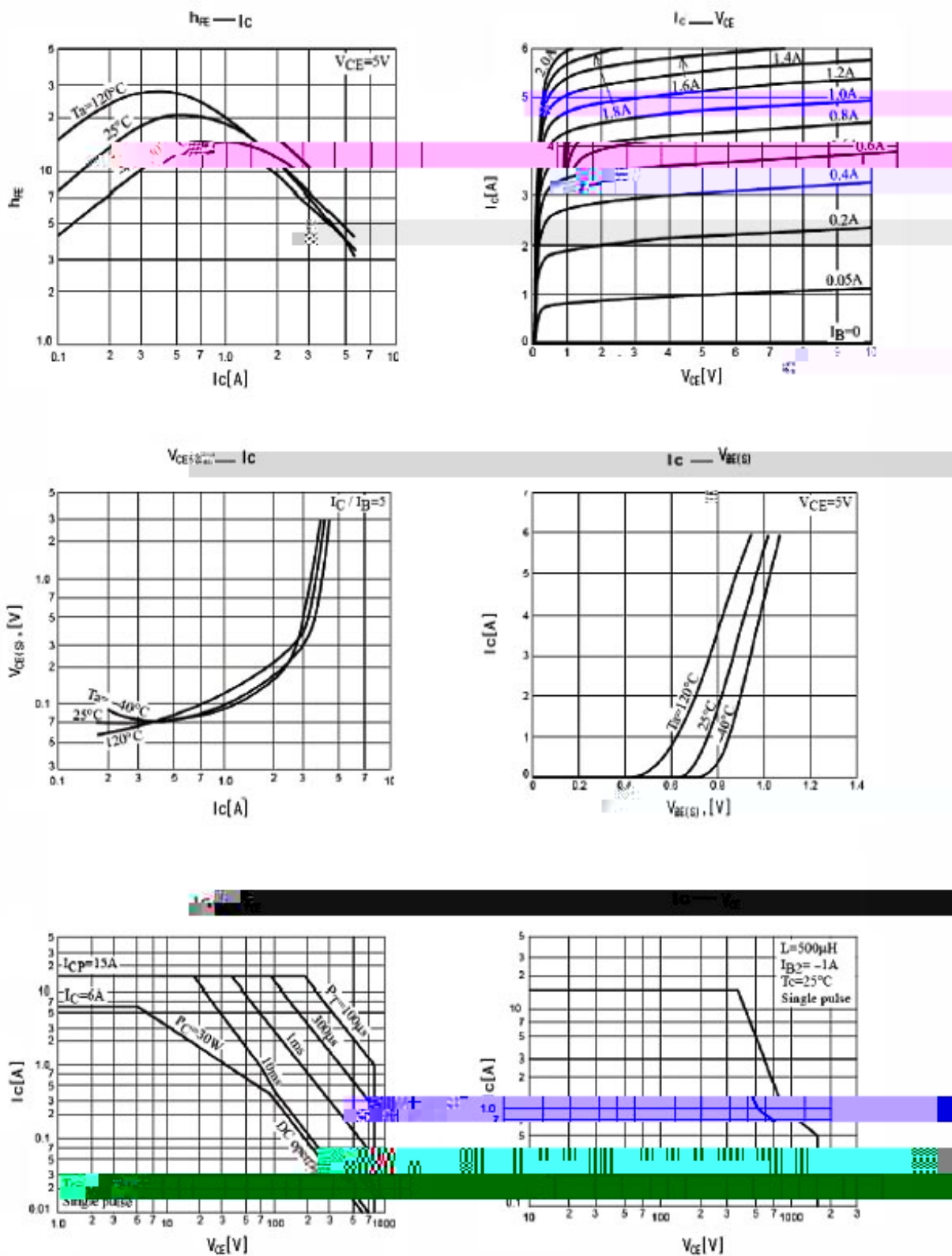
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High breakdown voltage, Wide SOA, High switching speed, Low saturation voltage, Excellent current characteristics, Bulit-in dumper diode.

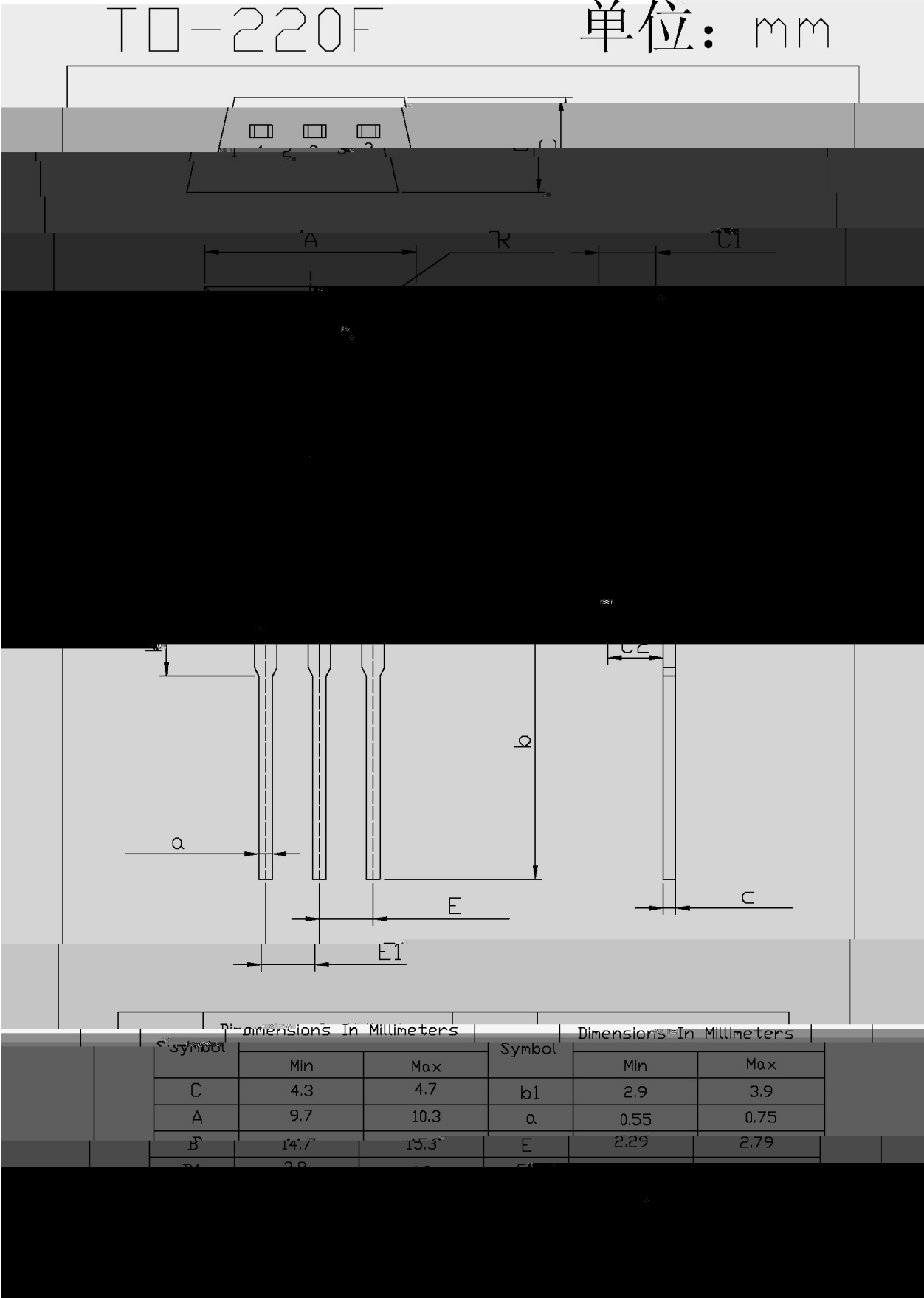
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	1500	V
Collector to Emitter Voltage($V_{BE}=0$)	V_{CES}	1500	V
Collector to Emitter Voltage	V_{CEO}	800	V
Emitter to Base Voltage	V_{EBO}	5.0	V
Collector Current - Continuous	I_C	6.0	A
Peak Collector Current	I_{CP}	15.0	A
Collector Power Dissipation	P_C	2.0	W
Collector Power Dissipation	$P_C(T_c=25^\circ C)$	30	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 ~ 150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Emitter to Base Breakdown Voltage	V_{EBO}	$I_E=500mA$ $I_C=0$	5.0			V
Forward Voltage	V_F	$I_F=3A$			2.0	V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=1000V$ $I_E=0$			50	μA
		$V_{CB}=1500V$ $I_E=0$			1.0	mA
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=4V$ $I_C=0$	40		130	mA
DC Current Gain*	h_{FE}^*	$V_{CE}=5.0V$ $I_C=3.0A$	5		10	
Collector to Emitter Saturation Voltage*	$V_{CE(sat)}$					

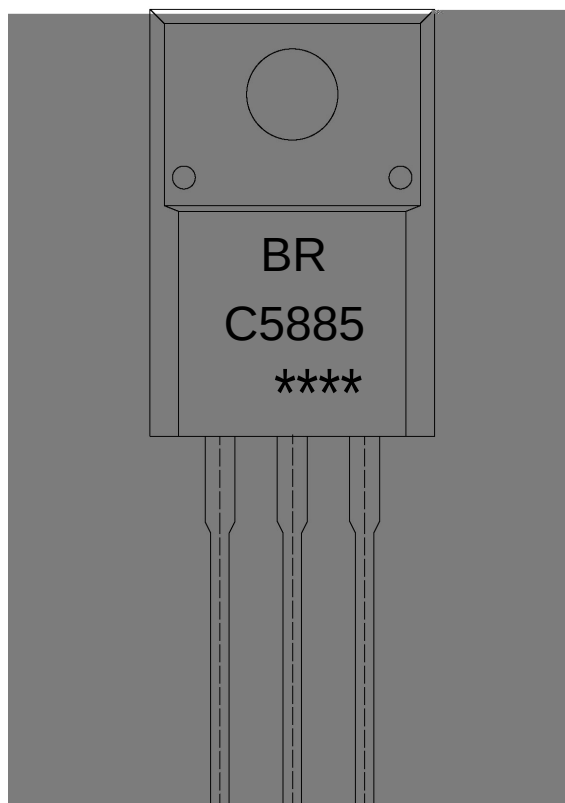
/ Electrical Characteristic Curve



/ Package Dimensions



/ Marking Instructions



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Note:

BR:

C5885:

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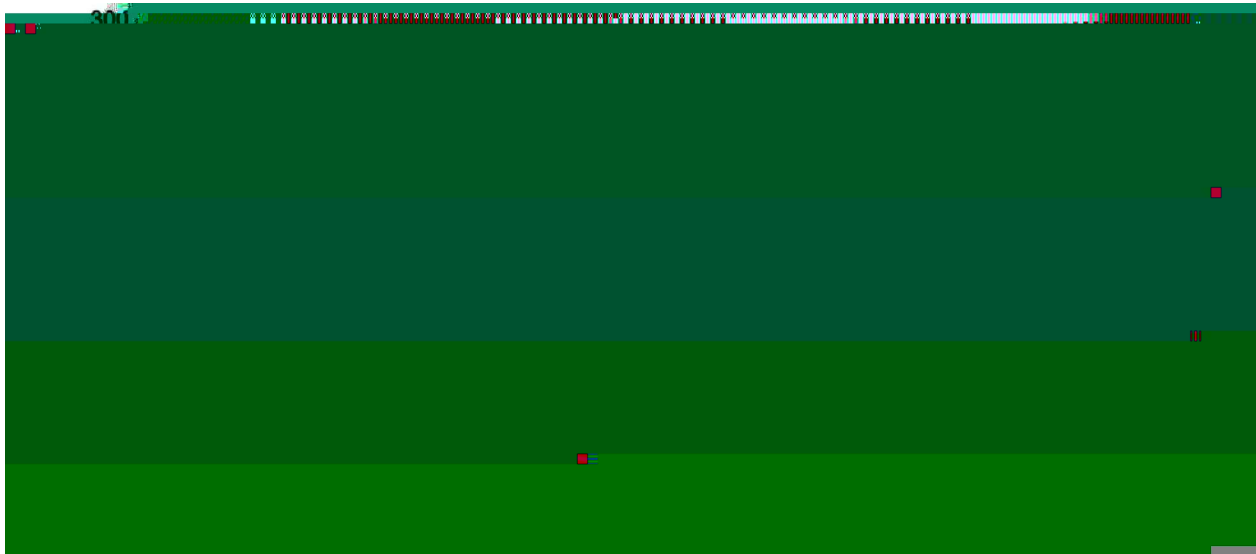
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Company Code

Product Type.

Lot No. Code, code change with Lot No.

() / Temperature Profile for Dip Soldering(Pb-Free)



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:
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2. Peak Temp.: 255 ± 5 °C, Duration: 5 ± 0.5sec.
3. Cooling Speed: 2~10 °C/sec.

/ Resistance to Soldering Heat Test Conditions

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

/ Packaging SPEC.

QTY / BULK

Package Type 封装形式	Units/Bag 只/袋	Bags/Inner Box 袋/盒	Units/Inner Box 只/盒	Units/Inner Box 只/盒	Dimension 包装尺寸 (unit: mm ³)
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