

/ Descriptions

WR0459I M M QSQ æ M ç s ll 1 Silicon NPN transistor in a TO-126F Plastic Package.

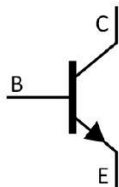
/ Features

ã ¤ /H ¢ ll , ð k ñ
High V_{CEO} , low C_{ob} .

/ Applications

æ ã Ë ð ¢ ÿ ,
Video output amplifier.

/ Equivalent Circuit



/ Pinning



PIN1 χ Emitter PIN 2 χ Collector PIN 3 χ Base

/ h_{FE} Classifications & Marking

M 1 " See Marking Instructions.

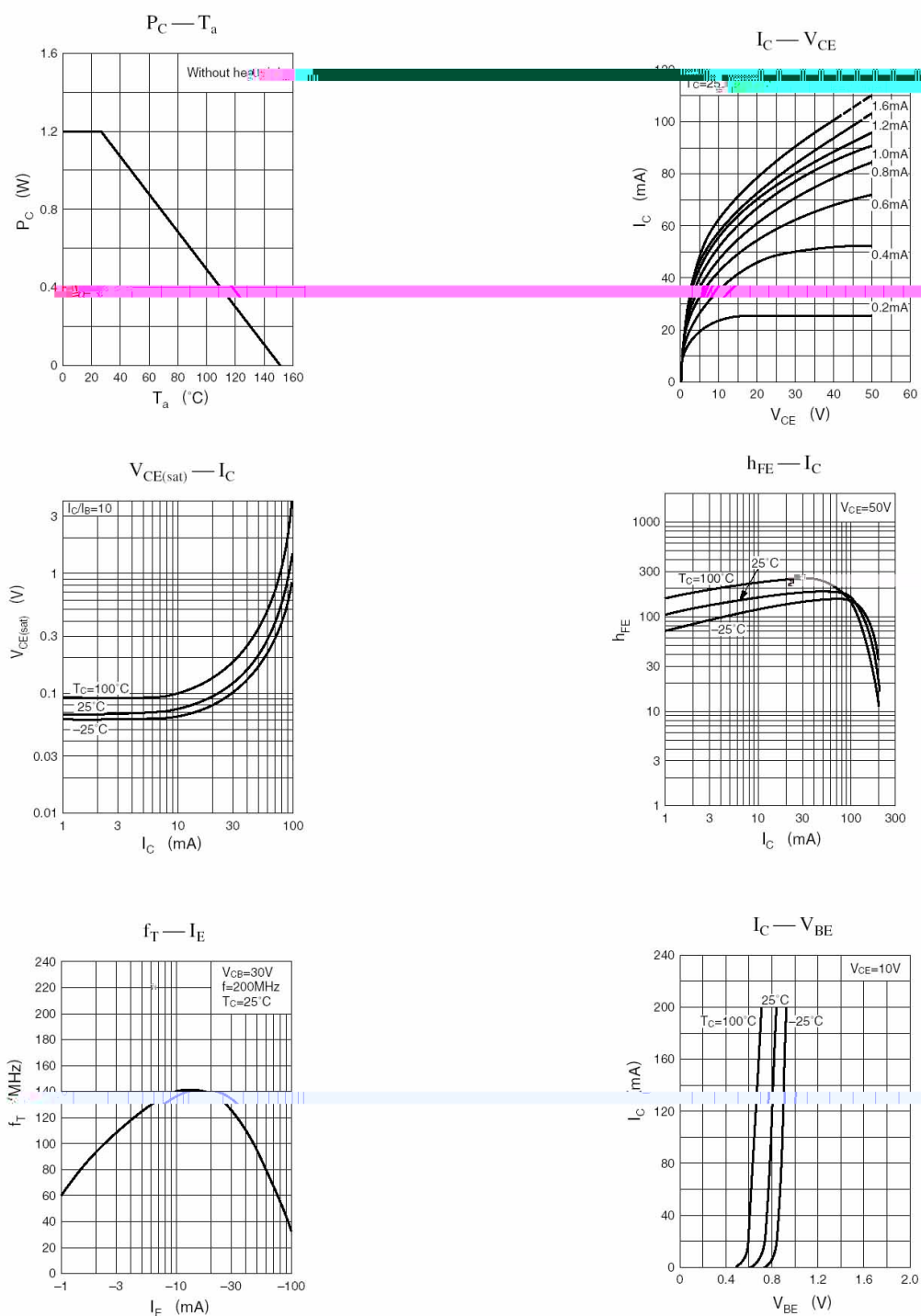
/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	300	V
Collector to Emitter Voltage	V_{CEO}	300	V
Emitter to Base Voltage	V_{EBO}	7.0	V
Collector Current - Continuous	I_C	100	mA
Collector Current – Continuous(Pulse)	I_{CP}	200	mA
Collector Power Dissipation	P_C	1.2	W
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	-55~150	°C

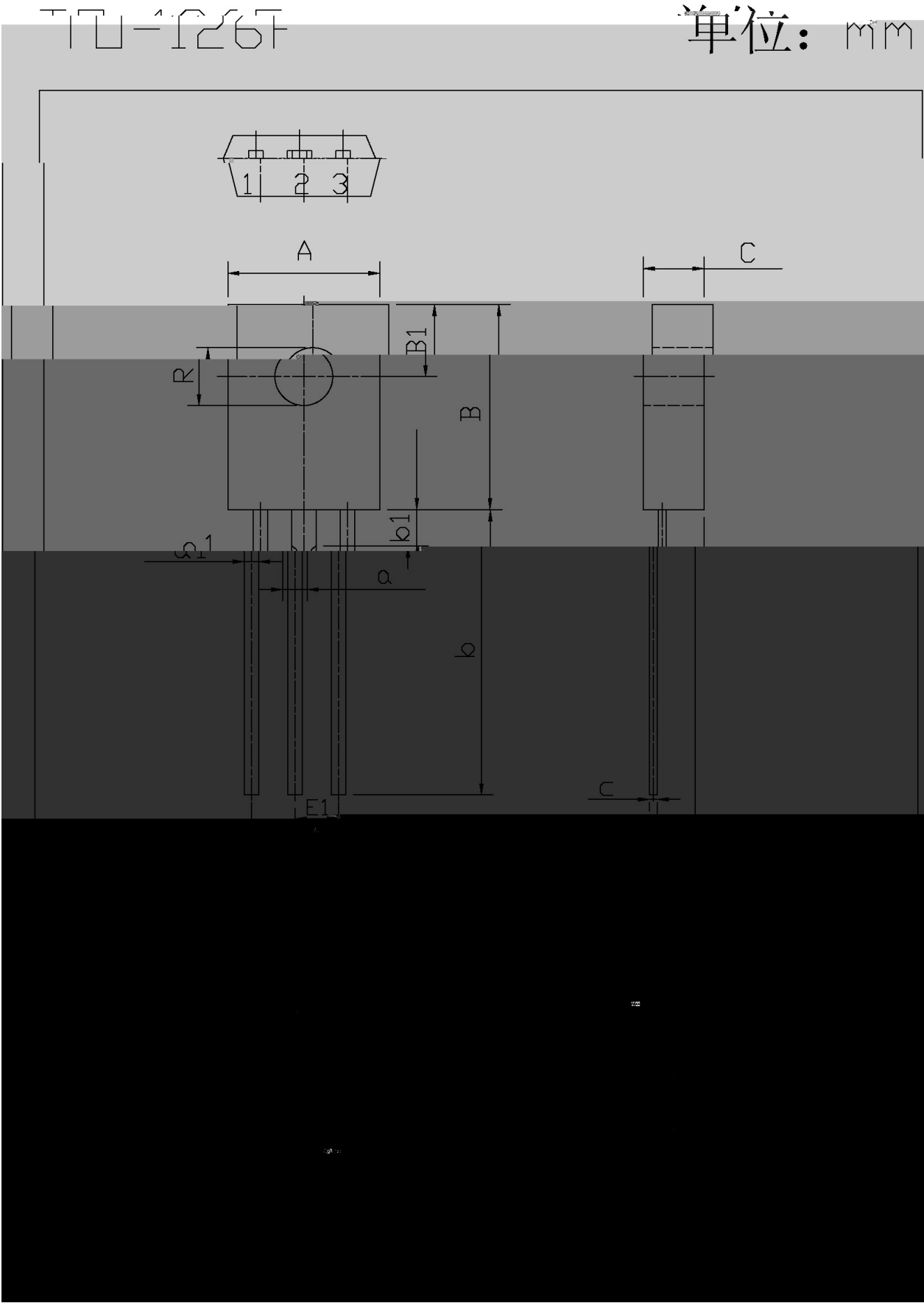
/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V_{CBO}	$I_C=10\text{ A}$ $I_E=0$	300			V
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C=0.1\text{mA}$ $I_B=0$	300			V
Emitter to Base Breakdown Voltage	V_{EBO}	$I_E=10\text{ A}$ $I_C=0$	7.0			V
DC Current Gain	h_{FE}	$V_{CE}=50\text{V}$ $I_C=5.0\text{mA}$	50		250	
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=30\text{mA}$ $I_B=3.0\text{mA}$			1.5	V
Base to Emitter Voltage	V_{BE}	$V_{CE}=10\text{V}$ $I_C=30\text{mA}$			1.2	V
Transition Frequency	f_T	$V_{CB}=30\text{V}$ $I_C=20\text{mA}$	70	140		MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=30\text{V}$ $I_E=0$ $f=1.0\text{MHz}$		2.4		pF

/ Electrical Characteristic Curve



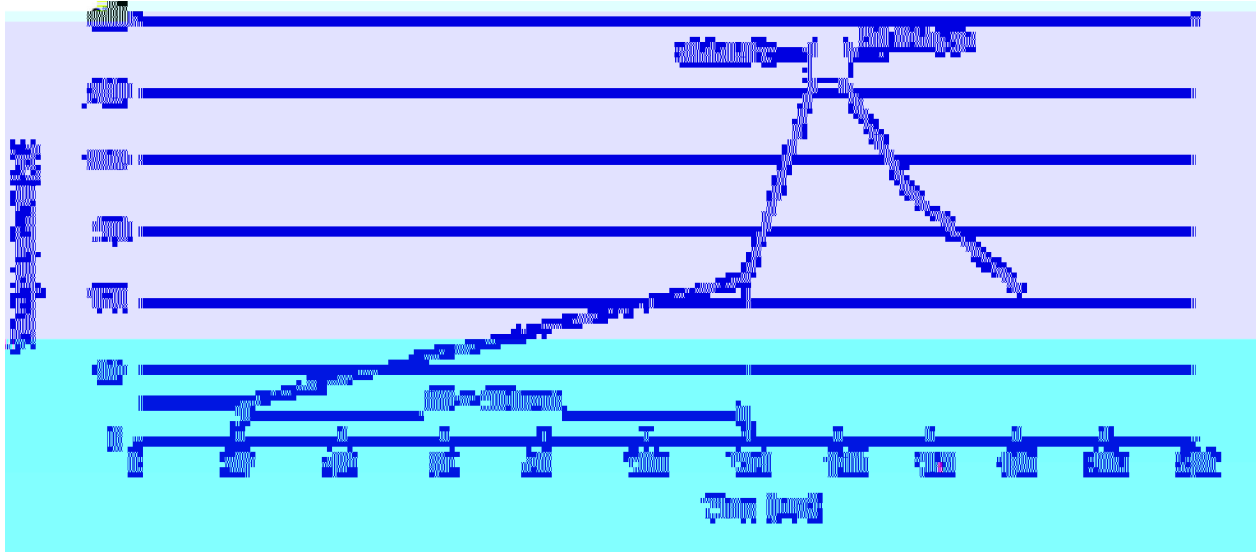
/ Package Dimensions



BR
C3063

EU χ	⌘ 3 ^N Γ
F6396 χ	⌘ 3 ^N Γ
---- χ	⌘ 1 f ḡ ^N Γ 1 1 f ḡ ^N Ψ ρ
Note:	
BR:	Company Code
C3063:	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 °C, Duration: 5~10 sec;
3. Cooling Speed: 2~10 °C/sec.

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/ Resistance to Soldering Heat Test Conditions

Preheating: 25~150 °C, Time: 60~90sec. Temp.: 270±5 °C Time: 10±1 sec

/ Packaging SPEC.

Package Type / BULK

Package Type	Units					Dimension (unit mm ³)		

Package Type / TUBE

Package Type	Units					Dimension (unit mm ³)		

/ Notices