

/ Descriptions

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

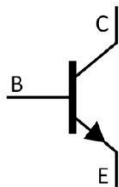
/ Features

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.

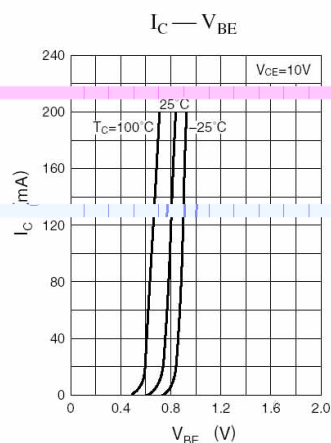
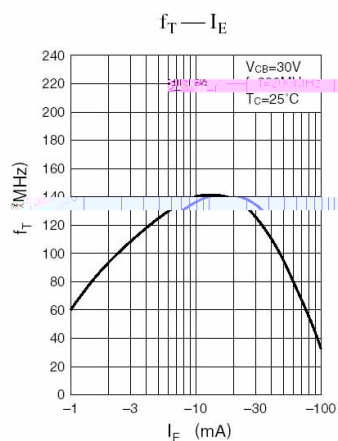
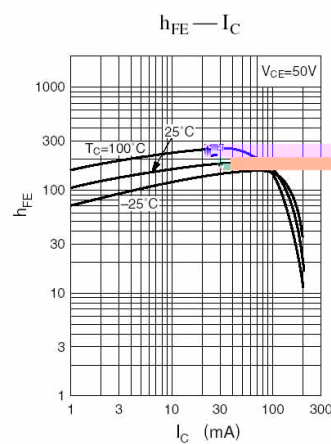
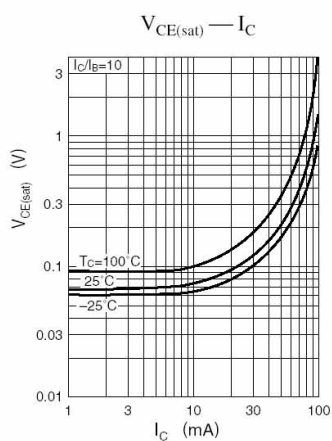
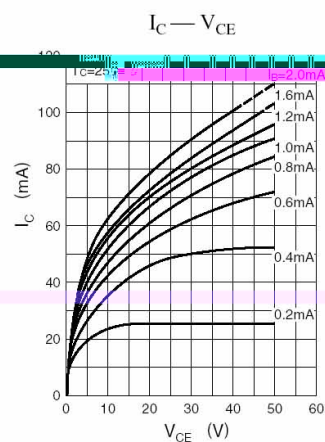
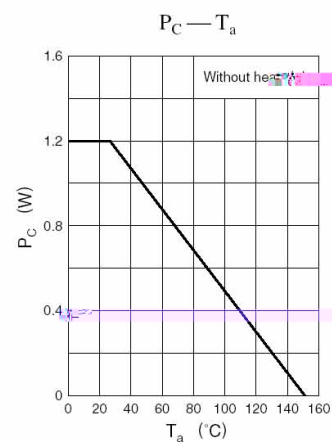
/ Absolute Maximum Ratings(Ta=25)

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

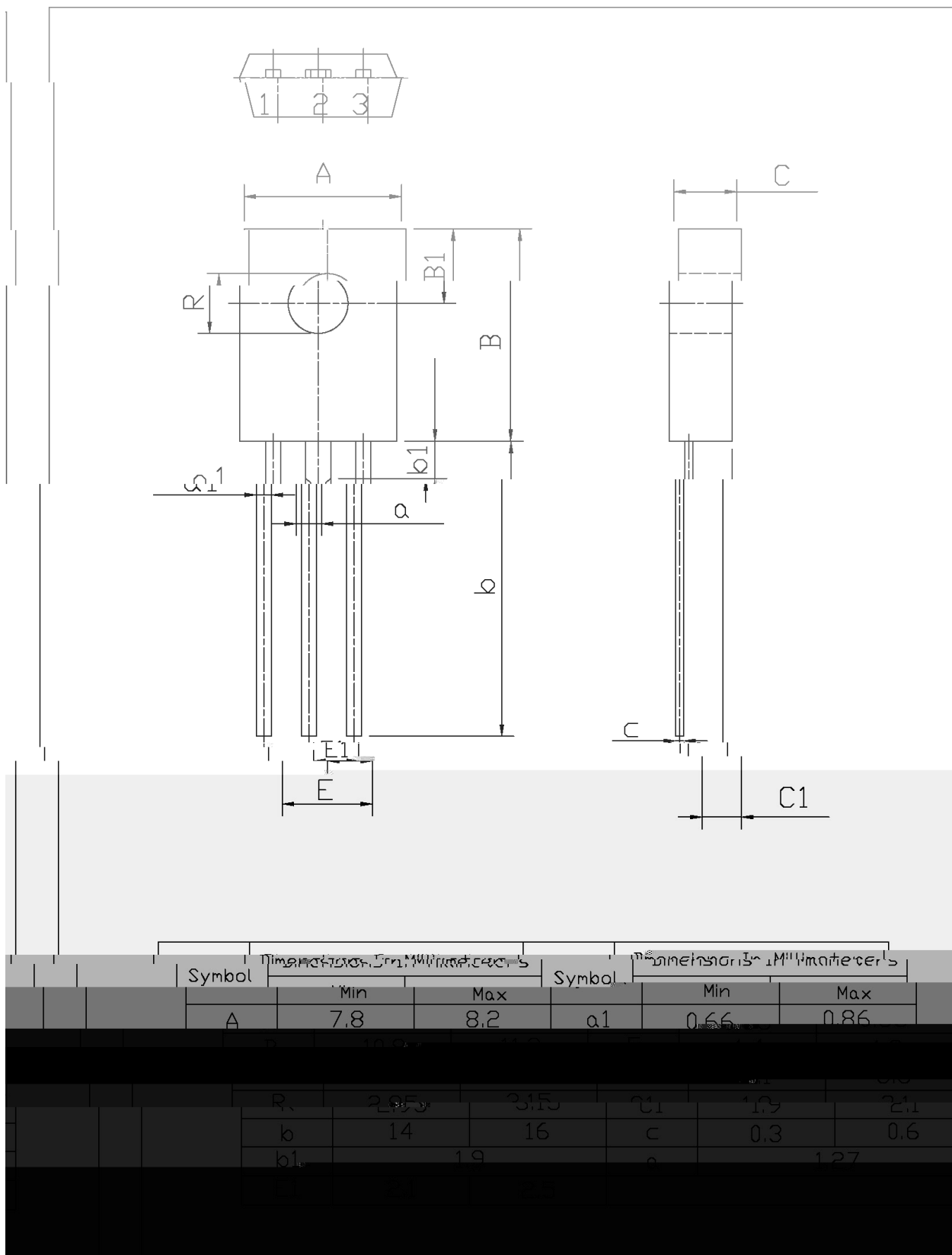
/ Electrical Characteristic Curve



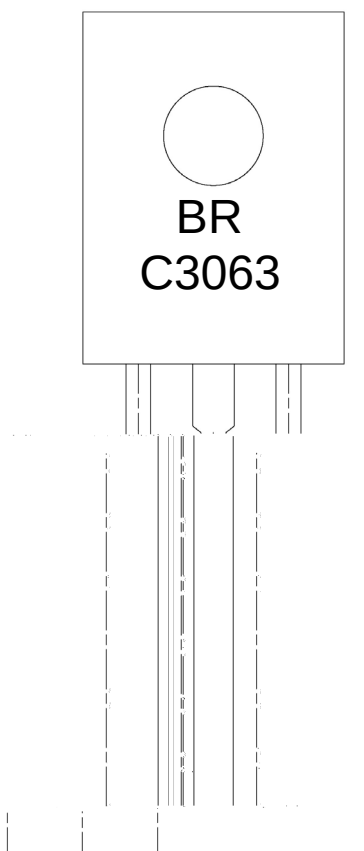
/ Package Dimensions

2SC3063

单位: mm



/ Marking Instructions



" X

EU χ 𐌹𐌺 𐌶 𐌺𐌹

F6396 χ 𐎧𐎺𐎠𐎧

$$---\chi \quad \mathbb{H} \cdot f \check{\eta}^N \mathbb{P} \quad | \quad \cdot f \check{\eta}^N \psi \rho$$

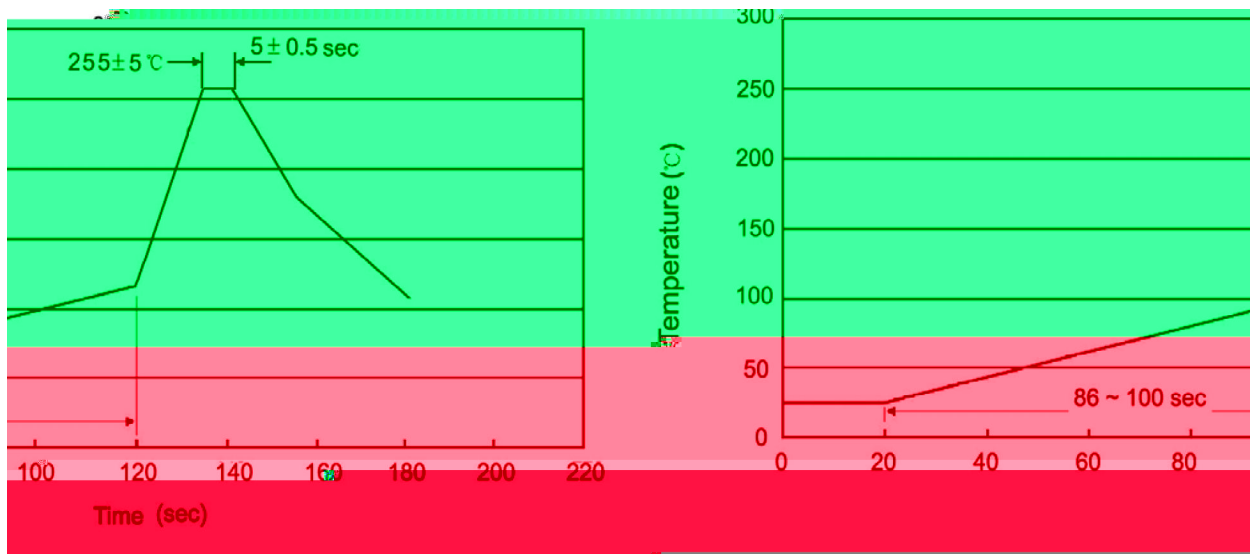
Note:

BR: Company Code

C3063: Product Type.

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

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



1. 25~150℃, Time: 60~90sec;
2. 255±5℃, Duration: 5±0.5sec;
3. Cooling Speed: 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.

/ Resistance to Soldering Heat Test Conditions

270±5℃, 10±1 sec. Temp.: 270±5℃ Time: 10±1 sec

/ Packaging SPEC.

/ BULK

Package Type	Units					Dimension		(unit mm ³)

/ TUBE

Package Type	Units					Dimension		(unit mm ³)

/ Notices