

**/ Descriptions**

KF \$() - = E GE Silicon NPN transistor in a TO-126F Plastic Package.

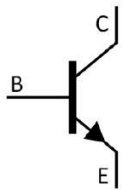
**/ Features**

#  
High  $V_{CEO}$ , low  $C_{ob}$ .

**/ Applications**

Video output amplifier.

**/ Equivalent Circuit**



**/ Pinning**



PIN1 Emitter      PIN 2 Collector      PIN 3 Base

**/  $h_{FE}$  Classifications & Marking**

See Marking Instructions.

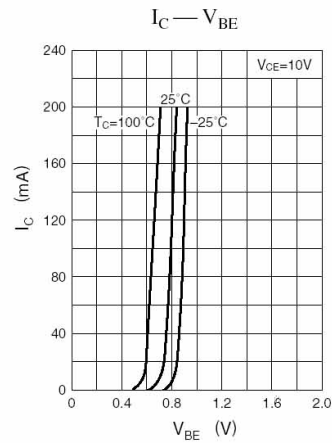
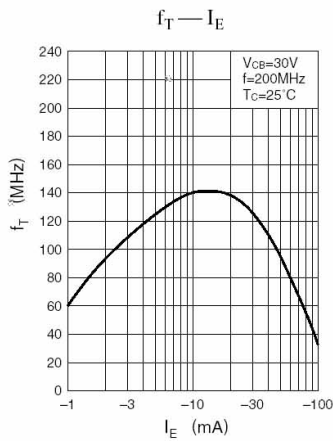
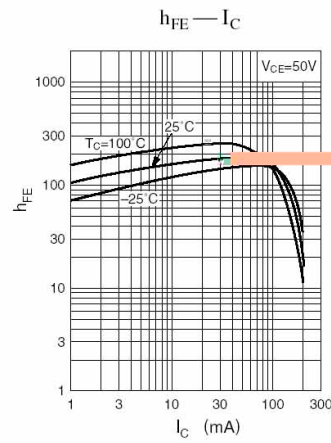
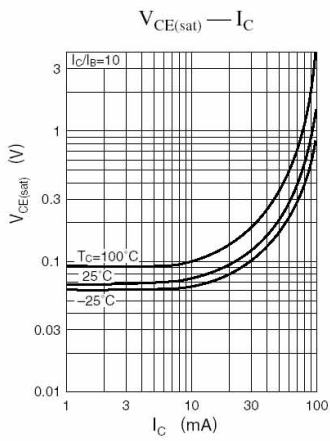
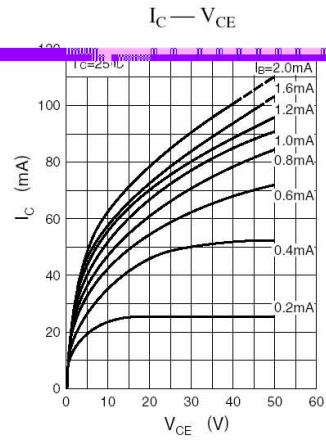
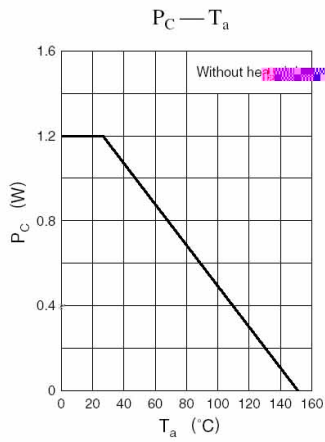
**/ Absolute Maximum Ratings(Ta=25 )**

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

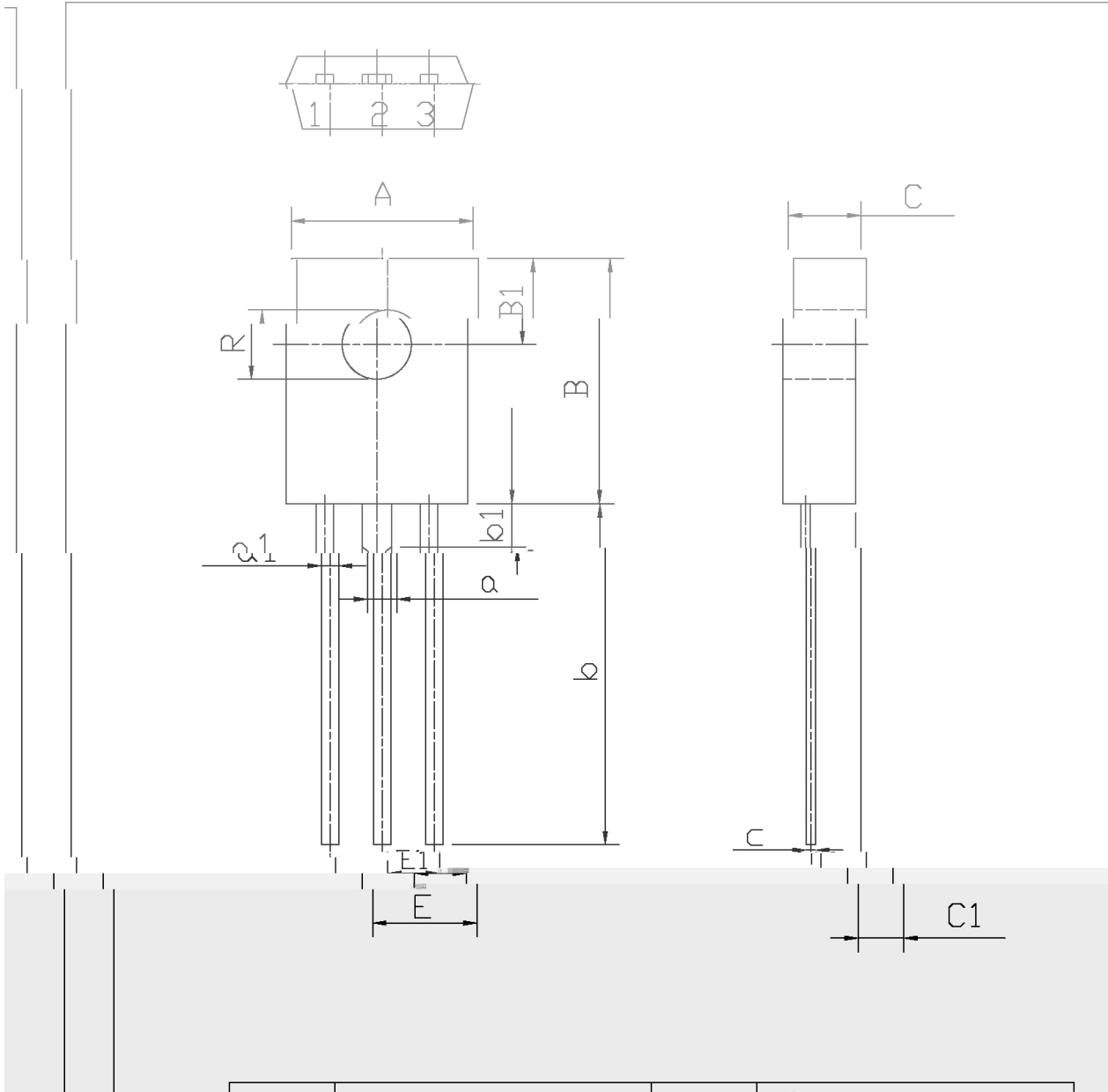
**/ Electrical Characteristic Curve**



**/ Package Dimensions**

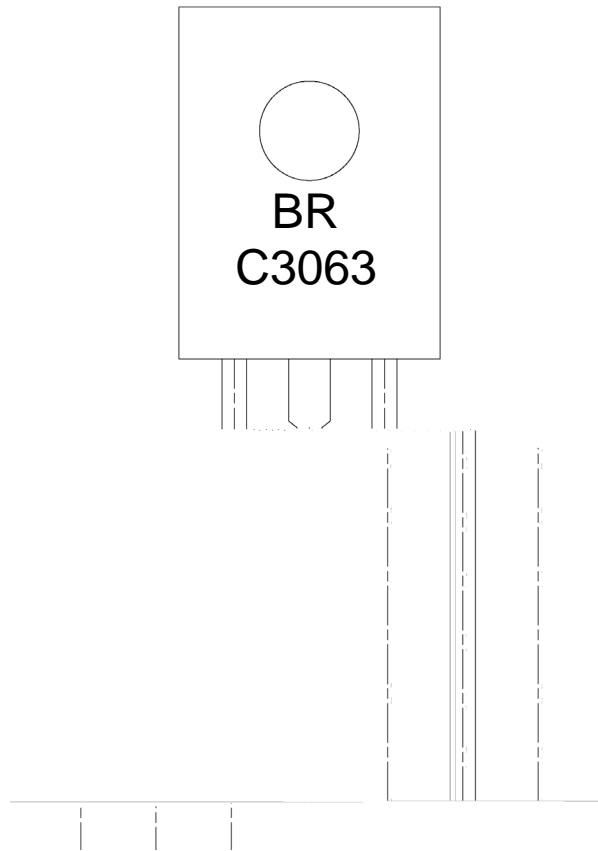
10-1261

单位: mm



	Min	Max		Min	Max
A	7.8	8.2	a1	0.66	0.85
B	10.8	11.2	E	4.4	4.8
B1	3.8	4.2	C	3.1	3.3
R	2.95	3.15	C1	1.9	2.1
b	14	16	c	0.3	0.6
b1		1.9	a		1.27
E1	2.1	2.5			

**/ Marking Instructions**



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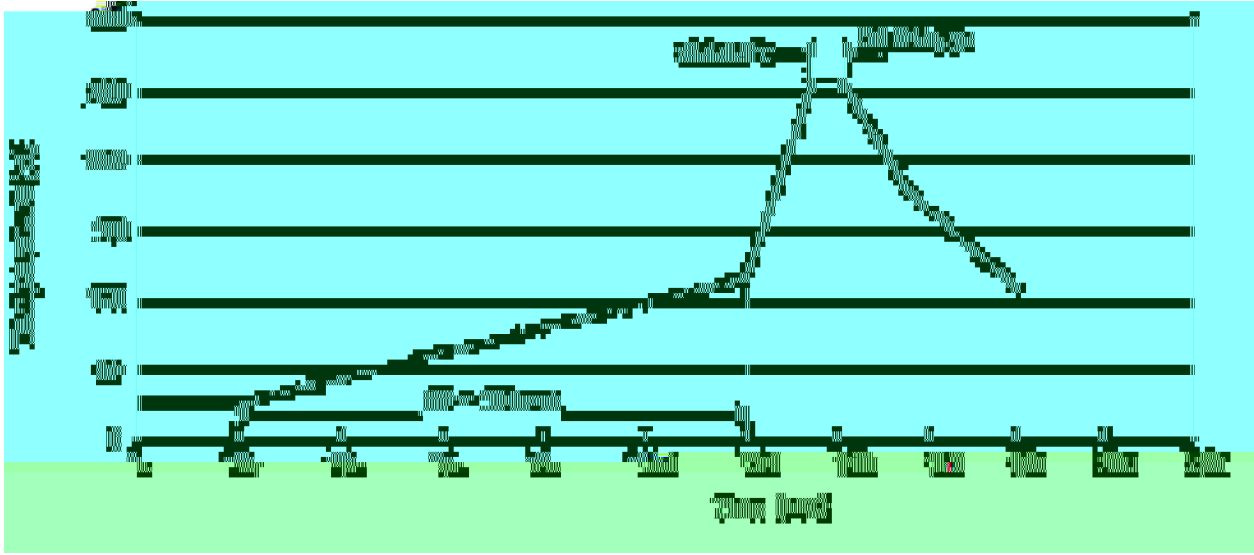
Note:

BR:            Company Code

C3063:        Product Type.

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

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



Note:

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

/ Resistance to Soldering Heat Test Conditions

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

/ Packaging SPEC.

/ BULK

Package Type	Units				Dimension			(unit mm <sup>3</sup> )

/ TUBE

Package Type	Units				Dimension			(unit mm <sup>3</sup> )

/ Notices