

2SC3422
Rev.E Mar.-2016

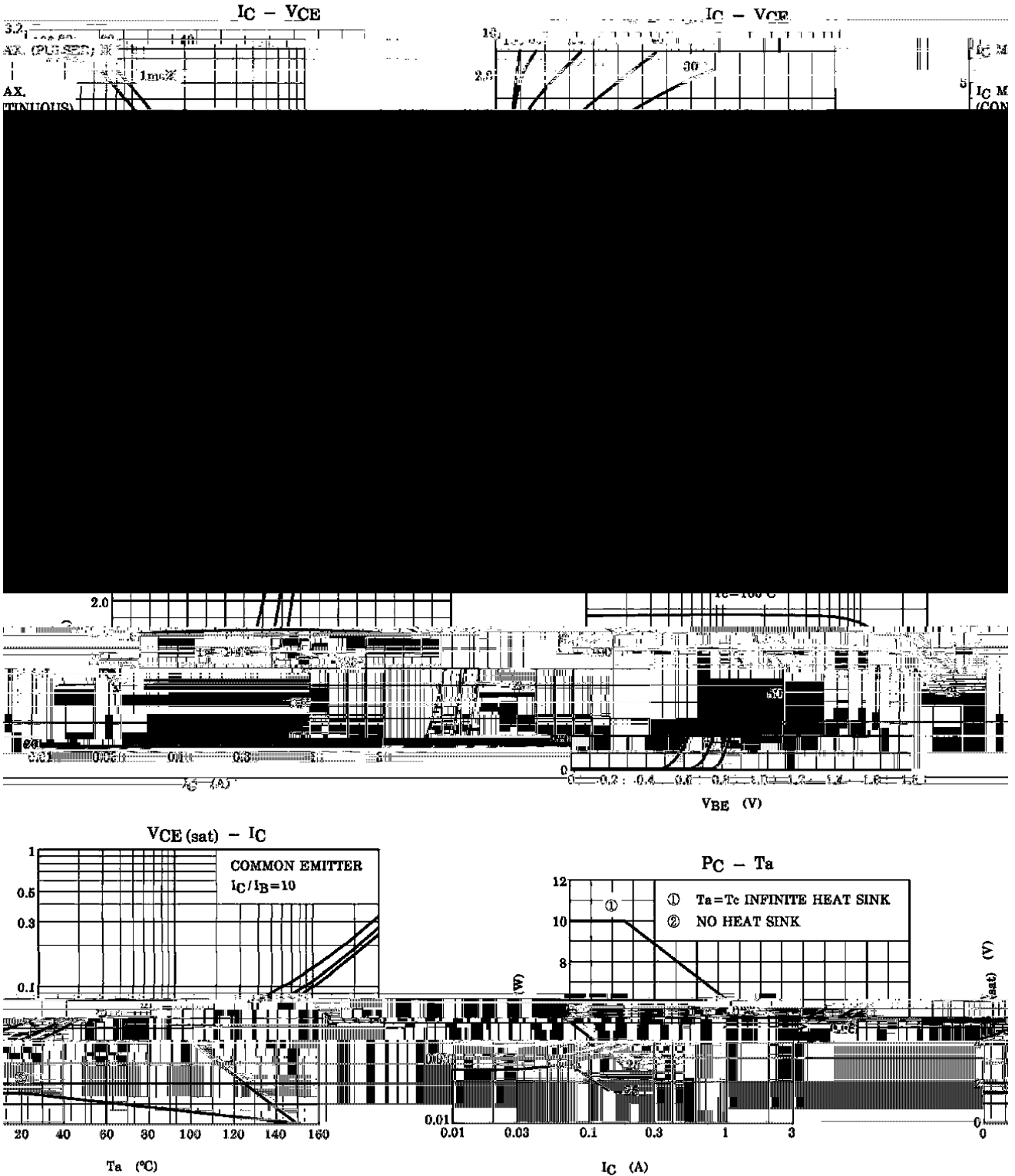


DATA SHEET

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	40	V
Collector to Emitter Voltage	V_{CEO}	40	V
Emitter to Base Voltage	V_{EBO}	5.0	V
Collector Current - Continuous	I_C	3.0	A
Base Current – Continuous	I_B	1.0	A
Collector Power Dissipation	P_C	1.5	W
Collector Power Dissipation	$P_C(T_C=25^\circ\text{C})$	10	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C=10\text{mA}$ $I_B=0$	40			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=40\text{V}$ $I_E=0$			0.1	μA
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=5.0\text{V}$ $I_C=0$			0.1	μA
DC Current Gain	$h_{FE(1)}$	$V_{CE}=2.0\text{V}$ $I_C=0.5\text{A}$	80		400	
	$h_{FE(2)}$	$V_{CE}=2.0\text{V}$ $I_C=2.5\text{A}$	25			
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=2.0\text{A}$ $I_B=0.2\text{A}$			0.8	V
Base to Emitter Voltage	V_{BE}	$V_{CE}=2.0\text{V}$ $I_C=0.5\text{A}$			1.0	V
Transition Frequency	f_T	$V_{CE}=2.0\text{V}$ $I_C=0.5\text{A}$		100		MHz
Collector output capacitance	C_{ob}	$V_{CB}=10\text{V}$ $I_E=0$ $f=1.0\text{MHz}$		35		pF

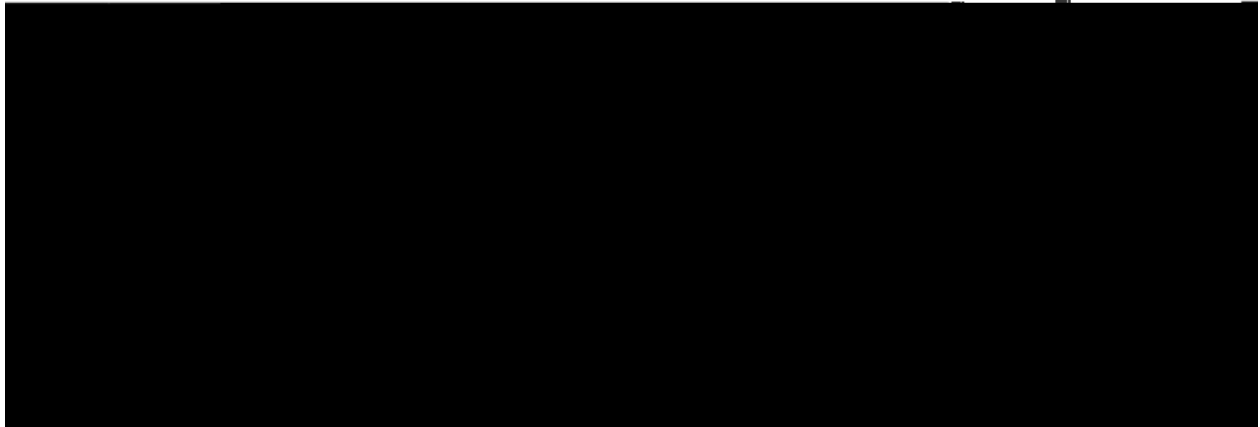
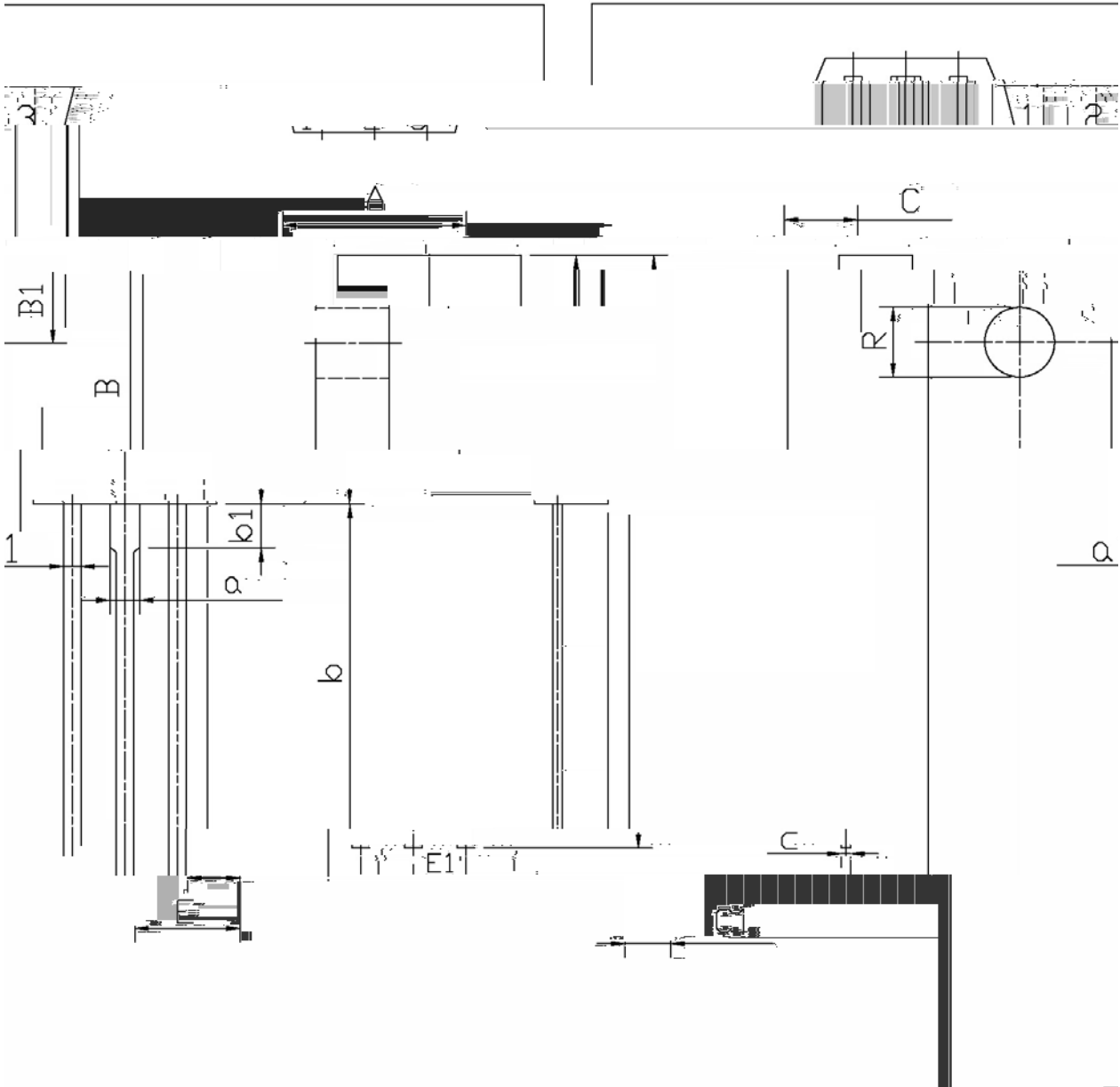
/ Electrical Characteristic Curve



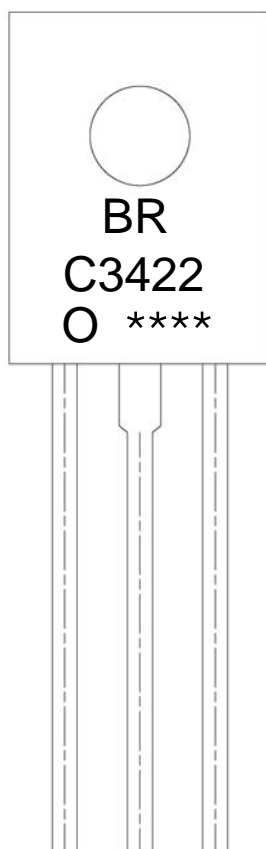
/ Package Dimensions

IP-126F

单位: mm



/ Marking Instructions



BR

C3422

O

h_{FE}

Note:

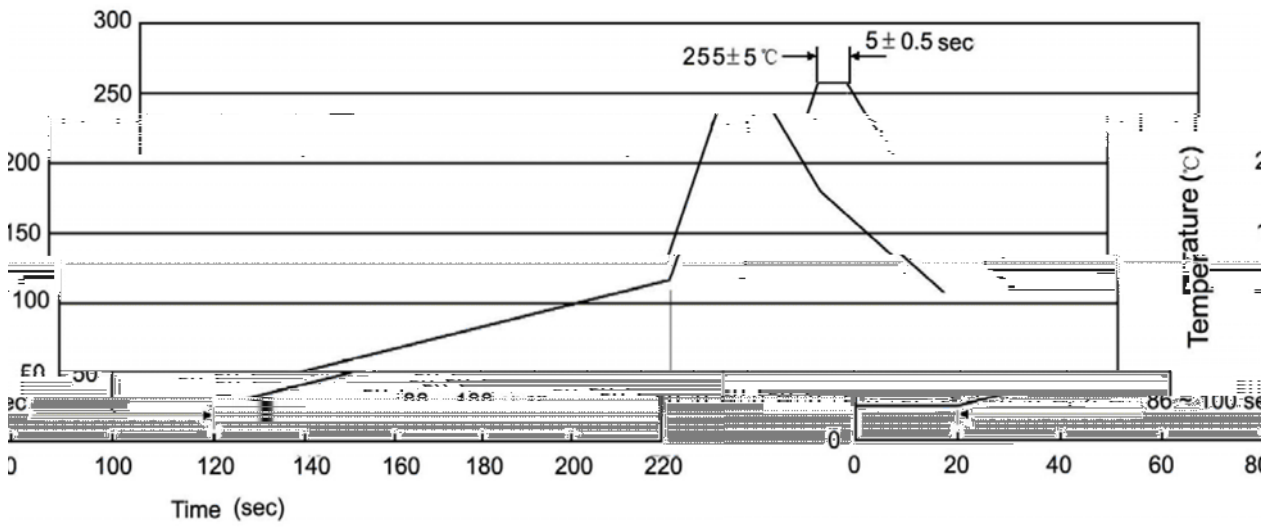
BR: Company Code

C3422: Product Type.

O: h_{FE} Classifications Symbol

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

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



Note:

1 25 150 60