

/ Descriptions

WR0459I SQS Silicon PNP transistor in a TO-126F Plastic Package.

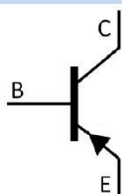
/ Features

5VF4495I
Complementary pair with 2SC1162F.

/ Applications

Low frequency power amplifier applications.

/ Equivalent Circuit



/ Pinning



PIN1 Emitter PIN 2 Collector PIN 3 Base

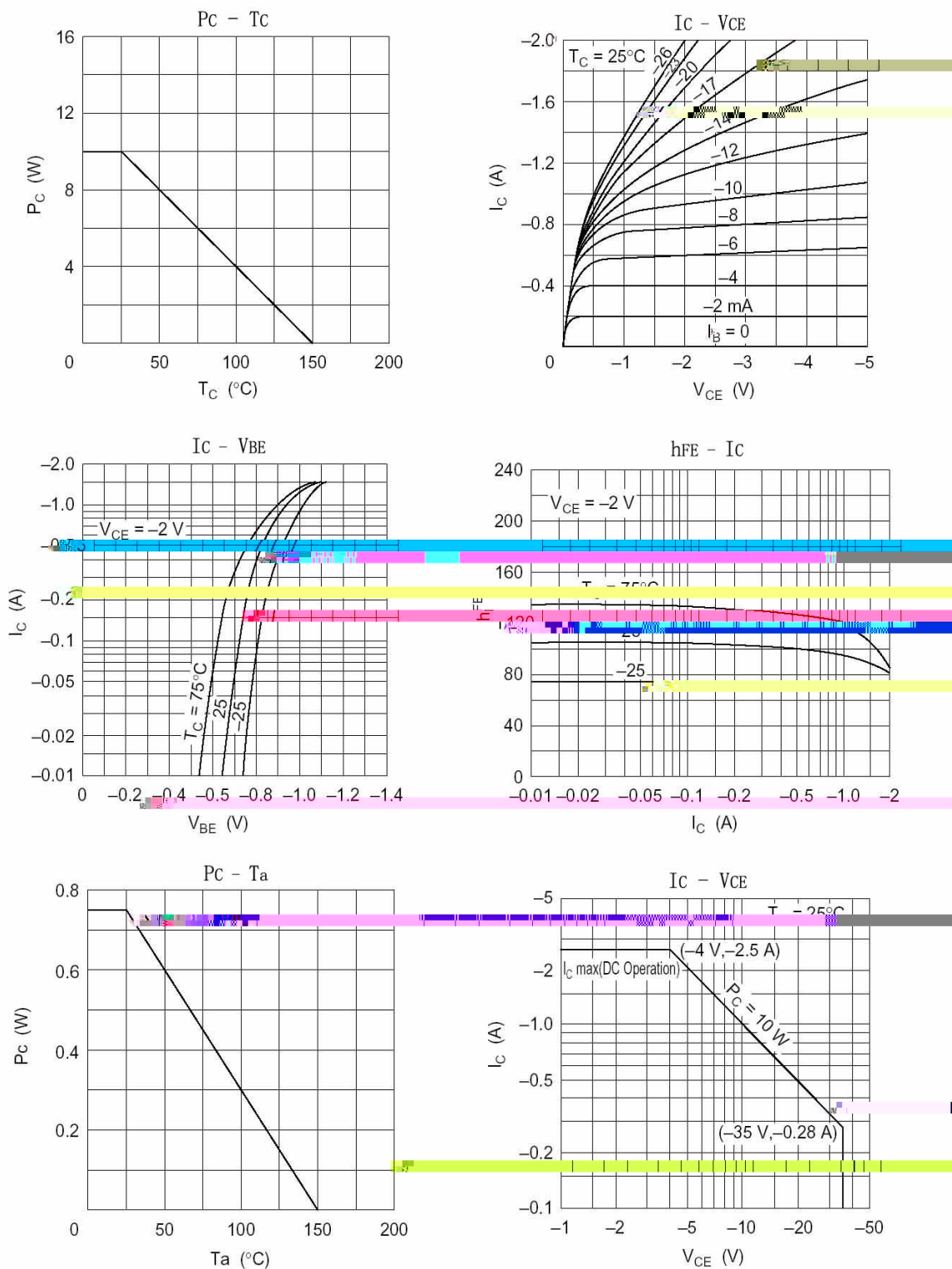
/ h_{FE} Classifications & Marking

h_{FE} Classifications Symbol	B	C	D
h_{FE} Range	60 120	100 200	160 320

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-35	V
Collector to Emitter Voltage	V_{CEO}	-35	V
Emitter to Base Voltage	V_{EBO}	-5	V
Collector Current - Continuous	I_C	-2.5	A
Collector Current – Continuous(Pulse)	I_{CP}	-3	A
Collector Power Dissipation	P_C	750	mW
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 Base Breakdown Voltage	V_{CBO}	$I_C=-1\text{mA}$ $I_E=0$	-35			V
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C=-10\text{mA}$ $R_{BE}=\infty$	-35			V
Emitter to Base Breakdown Voltage	V_{EBO}	$I_E=-1\text{mA}$ $I_C=0$	-5			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=-35\text{V}$ $I_E=0$			-20	μA

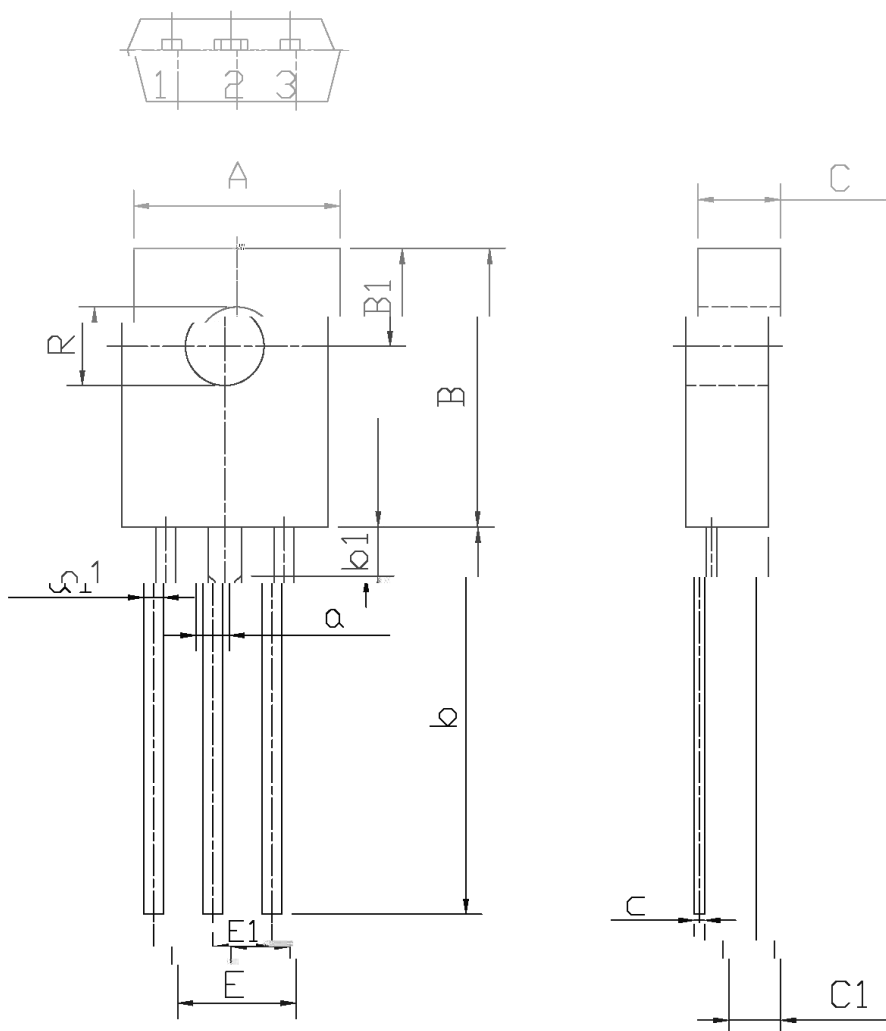
/ **Electrical Characteristic Curve**



/ Package Dimensions

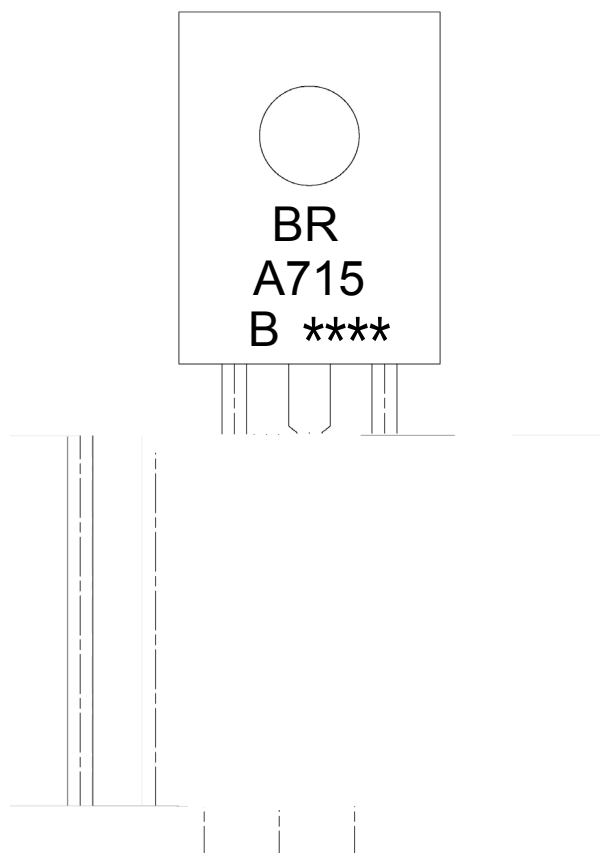
TO-18

单位: mm



Symbol	Dimension in Millimeters		Symbol	Dimension in Millimeters	
	Min	Max		Min	Max
A	7.8	8.2	a1	0.66	0.86
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



EU

D: 48

E= k_{IH}

Note:

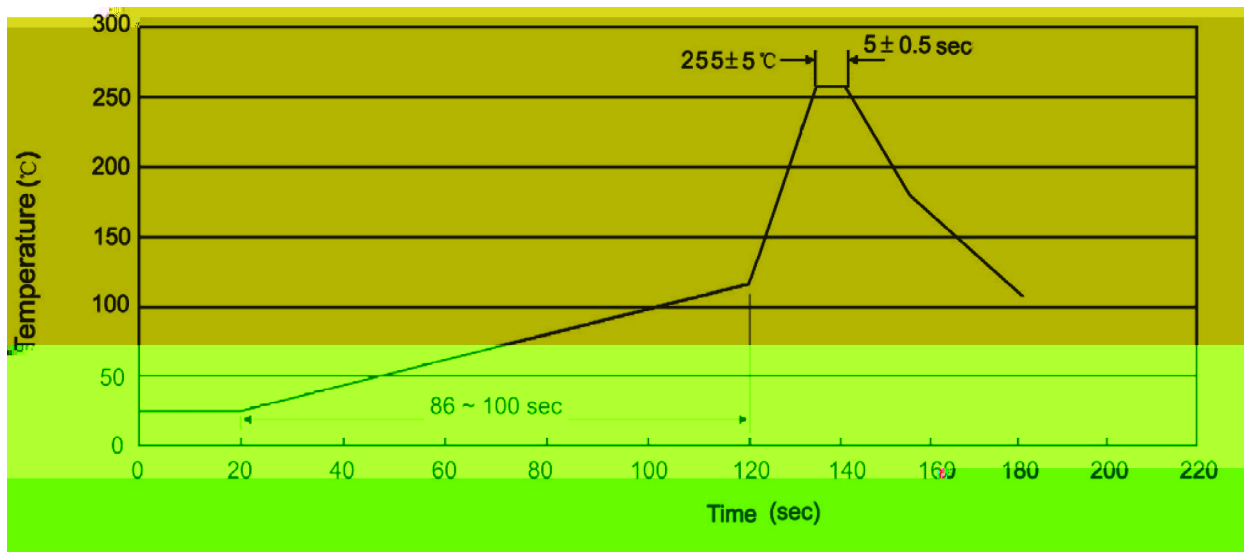
BR: Company Code

A715: Product Type.

B: h_{FE} Classifications Symbol

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

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



Note:

- | | | | | | |
|---|-----|---------------------------------|----|--------------------------------------|---|
| 1 | 25 | 150 ³ / ₈ | 60 | 90sec; | 1.Preheating:25~150 ³ / ₈ , Time:60~90sec. |
| 2 | 255 | 255 ² / ₈ | 5 | 2 0.5sec; | 2.Peak Temp.:255 ² / ₈ , Duration:5 ² / ₈ 0.5sec. |
| 3 | | | 2 | 10 ³ / ₈ /sec. | 3. Cooling Speed: 2~10 ³ / ₈ /sec. |

/ Resistance to Soldering Heat Test Conditions

270²/₈ 10²/₈ 1 sec. Temp.:270±5 Time:10±1 sec

/ Packaging SPEC.

/ BULK

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	Units/Tube 只/套管	Tubes/Inner Box 套管/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Tube 套管	Inner Box 盒	Outer Box 箱
TO-126/F	500	6	3,000	5	15,000	135×190	237×172×102	560×245×195

/ TUBE

Package Type 封装形式	Units 包装数量	Dimension 包装尺寸 (unit: mm ³)
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