

/ Descriptions

WR0<5 QSQ Silicon NPN transistor in a TO-92 Plastic Package.

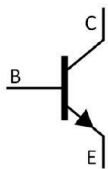
/ Features

5VE894
Complementary pair with 2SB561.

/ Applications

Low frequency power amplifier.

/ Equivalent Circuit



/ Pinning



PIN1 Base PIN 2 Collector PIN 3 Emitter

/ hFE Classifications & Marking

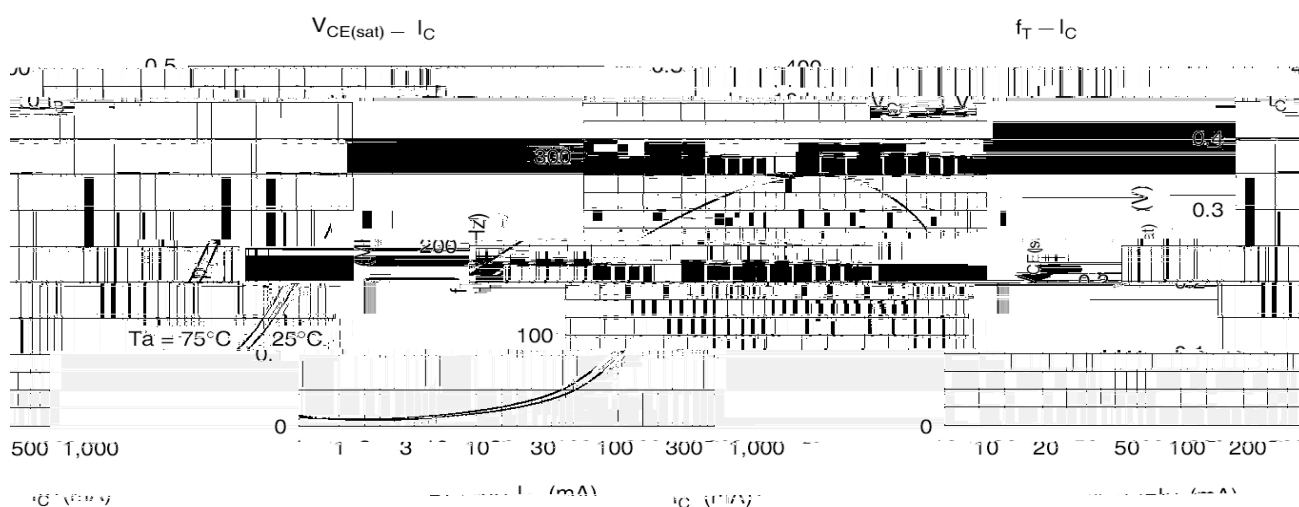
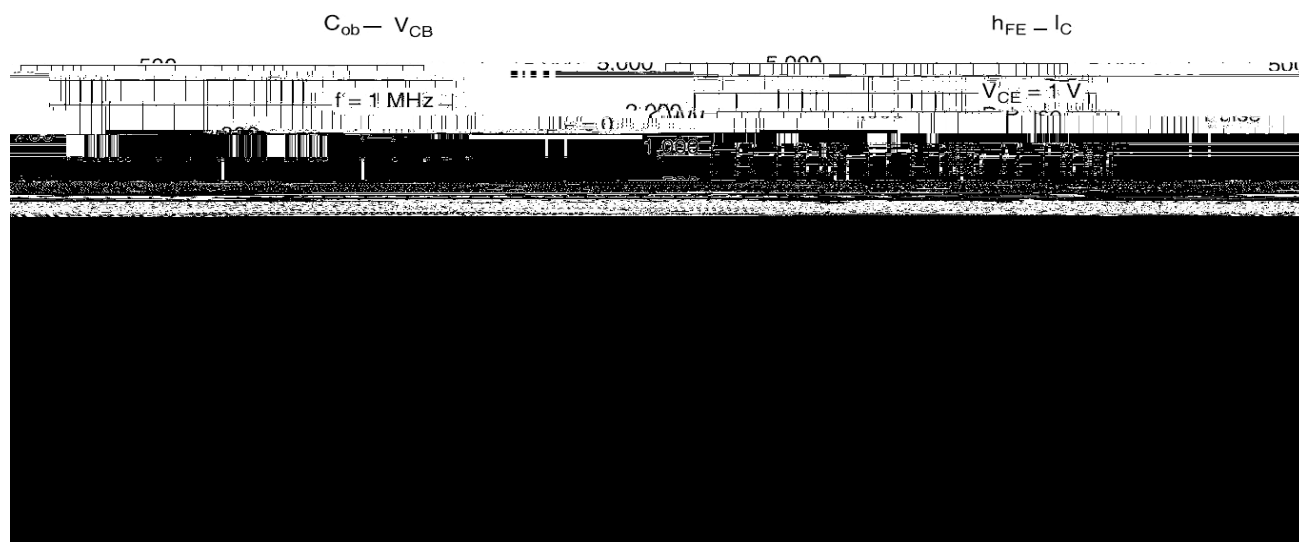
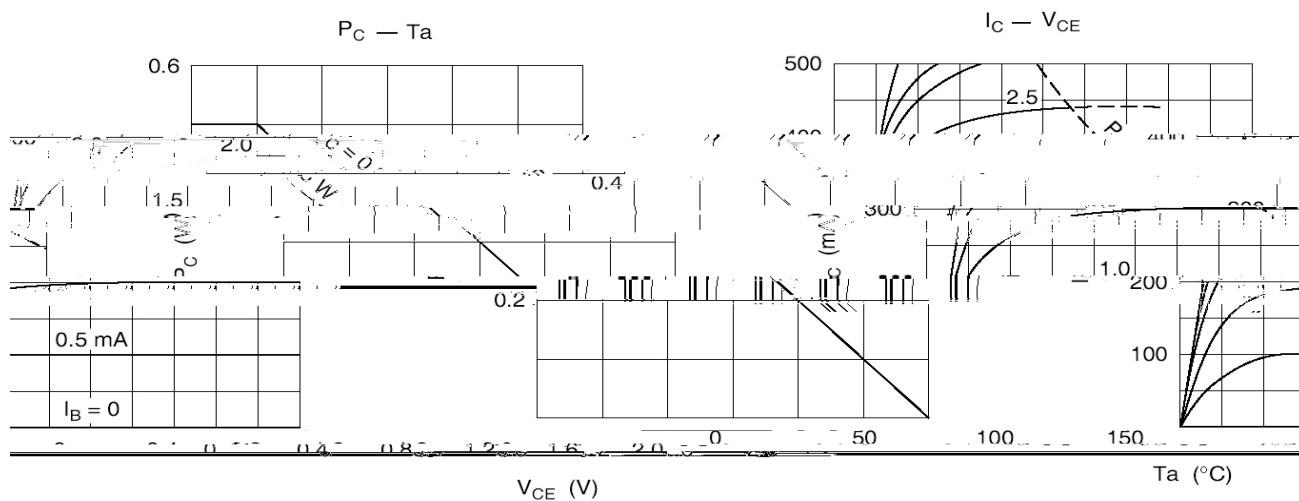
h _{FE} Classifications Symbol	B	C
h _{FE} Range	85~170	120~240

/ Absolute Maximum Ratings(Ta=25)

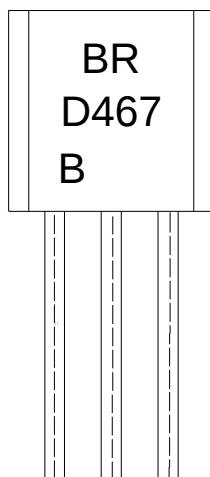
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	25	V
Collector to Emitter Voltage	V_{CEO}	20	V
Emitter to Base Voltage	V_{EBO}	5.0	V
Collector Current - Continuous	I_C	0.7	A
Peak Collector Current	I_{CM}	1.0	A
Collector Power Dissipation	P_C	0.5	W
Junction Temperature	T_J	150	
Storage Temperature Range	T_{stg}	-55 150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V_{CBO}	$I_C=10\text{ A}$ $I_E=0$	25			V
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C=1.0\text{mA}$ $I_B=0$	20			V
Emitter to Base Breakdown Voltage	V_{EBO}	$I_E=10\text{ A}$ $I_C=0$	5.0			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=20\text{V}$ $I_E=0$			1.0	A
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=4\text{V}$ $I_C=0$			1.0	A
DC Current Gain	h_{FE}	$V_{CE}=1.0\text{V}$ $I_C=0.15\text{A}$	85		240	
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=0.5\text{A}$ $I_B=0.05\text{A}$		0.19	0.5	V
Base to Emitter Voltage	V_{BE}	$V_{CE}=1.0\text{V}$ $I_C=0.15\text{A}$		0.76	1.0	V
Transition Frequency	f_T	$V_{CE}=1.0\text{V}$ $I_C=0.15\text{A}$		280		MHz
Output Capacitance	C_{ob}	$V_{CB}=10\text{V}$ $I_E=0$ $f=1.0\text{MHz}$		12		pF

I Electrical Characteristic Curve



/ Marking Instructions



EU:

G79 :

E: k

Note:

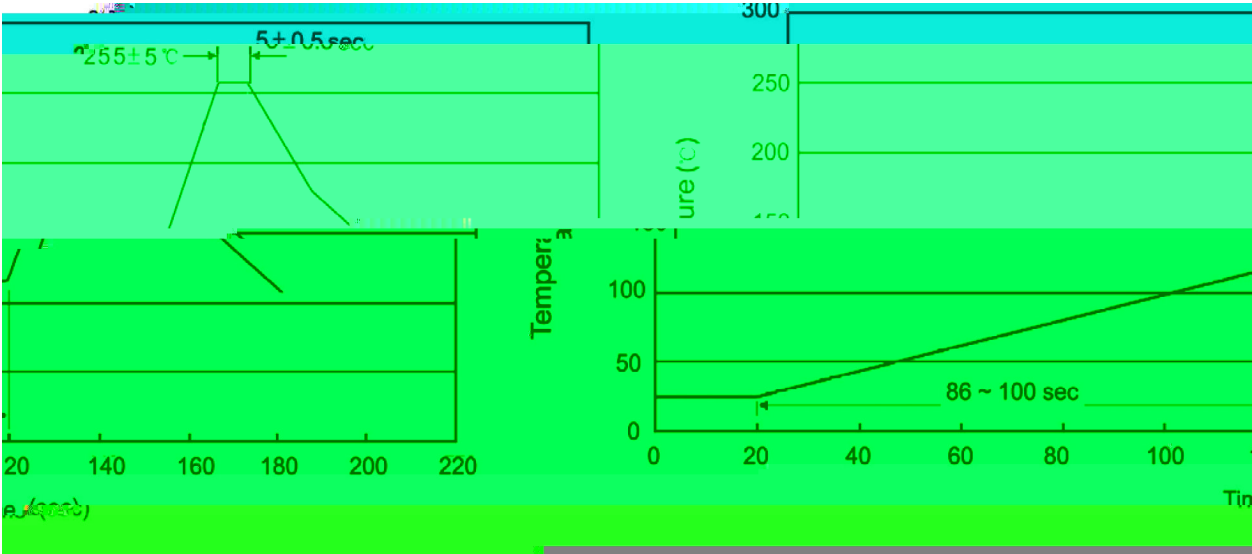
BR: Company Code.

D467: 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% | 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	Time:10±1 sec
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/ Packaging SPEC.

/ BULK

06R006