

/ Descriptions

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

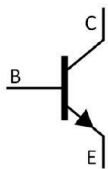
/ Features

High transition frequency, low output capacitance.

/ Applications

RF amplifier applications.

/ Equivalent Circuit



/ Pinning



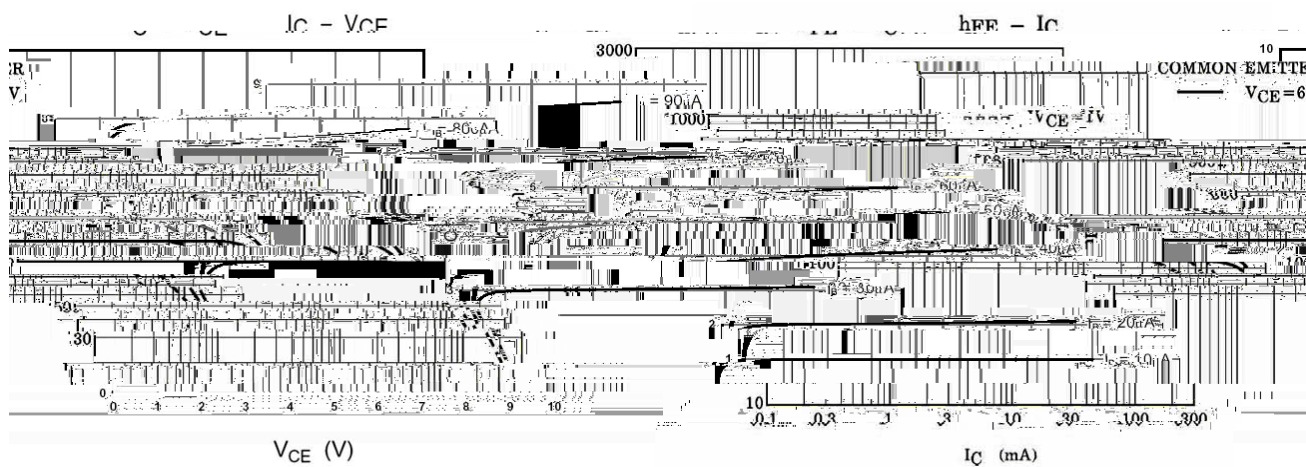
PIN1 Base PIN 2 Collector PIN 3 Emitter

/ hFE Classifications & Marking

h _{FE} Classifications Symbol	R	O	Y
h _{FE} Range	40~80	70~140	120~240

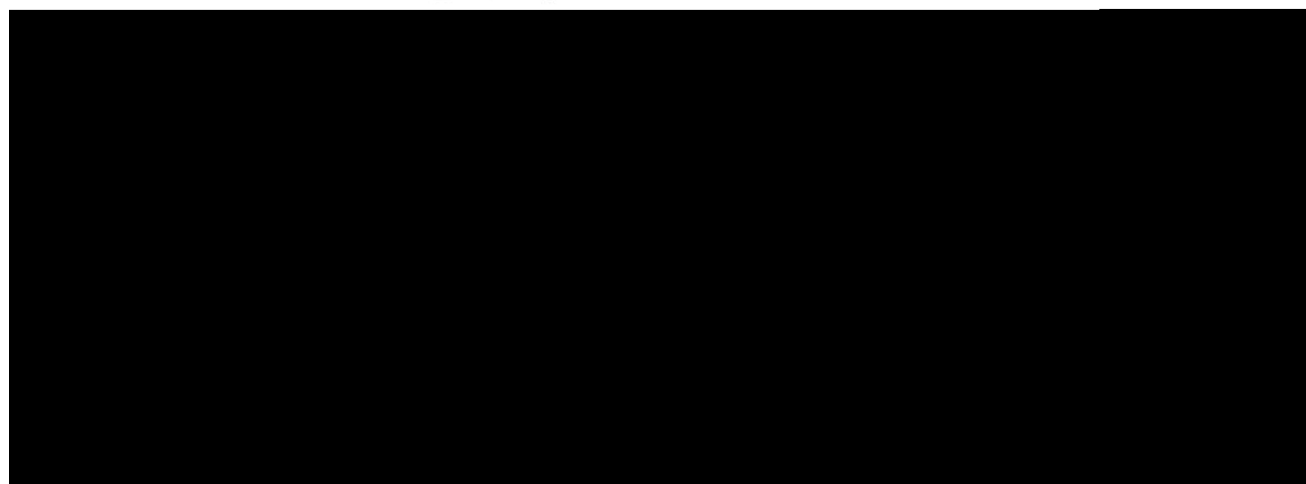
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	30	V
Collector to Emitter Voltage	V_{CEO}	20	V
Emitter to Base Voltage	V_{EBO}	4.0	V
Collector Current - Continuous	I_C		

Electrical Characteristic Curve



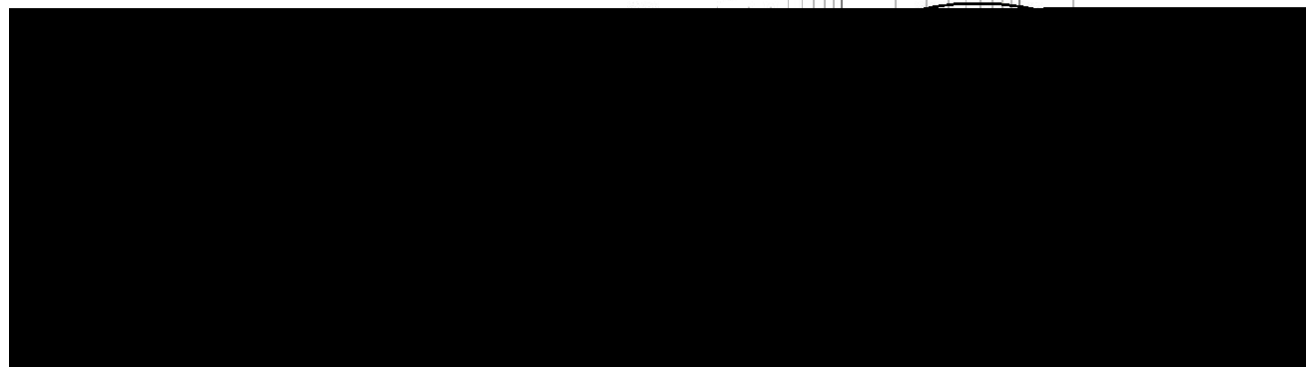
$V_{CE(sat)} - I_{C(sat)} = 10$

$C_{ob} - V_{CE} = 10$

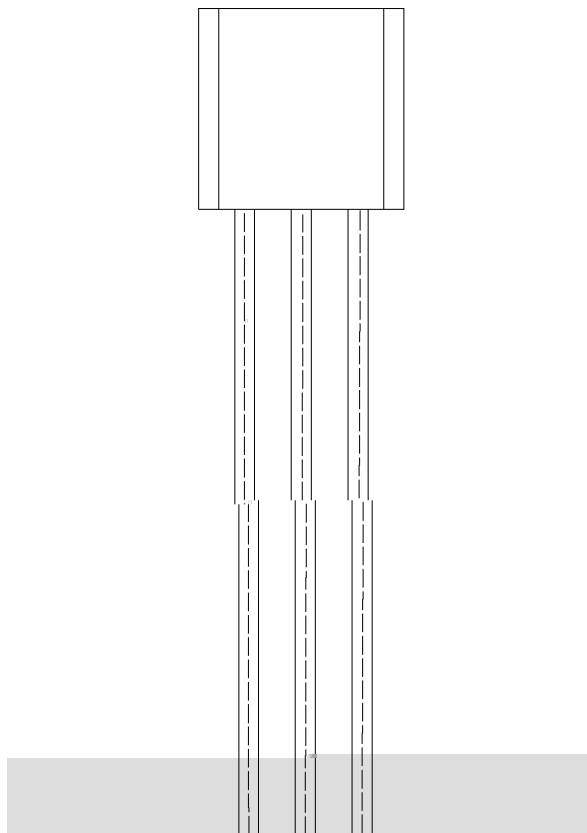


$f_T - I_C$

$V_{CE} = 5V$



/ Marking Instructions



EU:-

F8678

U:- h_{FE}

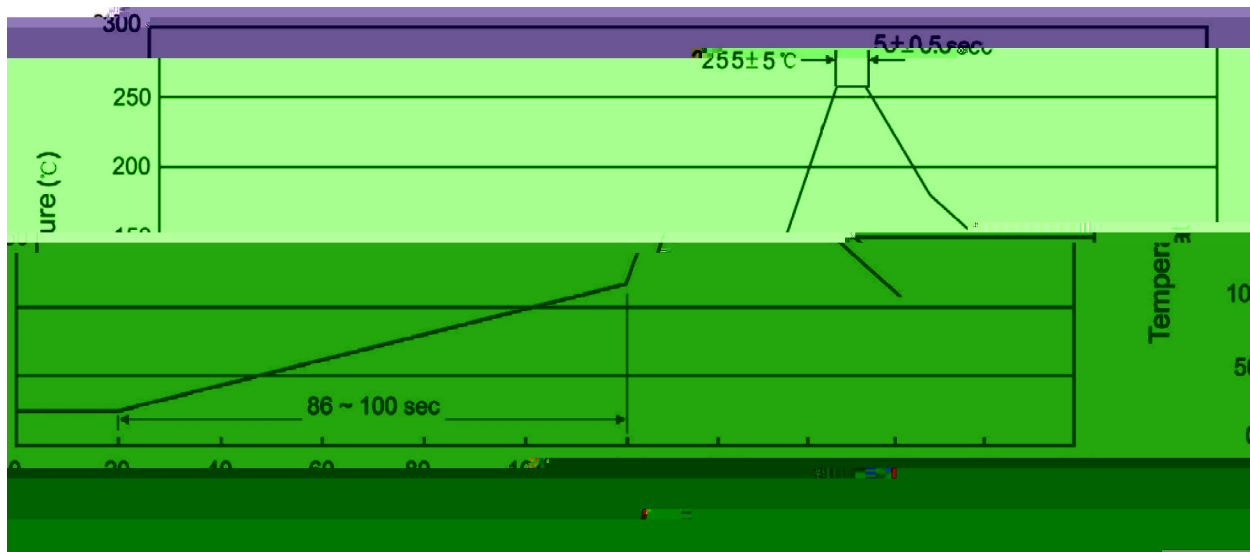
Note:

BR: Company Code.

C5345: Product Type.

U: h_{FE} Classifications Symbol.

() / 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

/ Packaging SPEC.

/ BULK

Package Type	Units					Dimension (unit mm3)		
	Units/Bag	Bags/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Bag	Inner Box	Outer Box
TO-92	1,000	10	10,000	5	50,000	135×190	237×172×102	560×245×195
	1,000	10	10,000	10	100,000	135×190	237×172×102	560×245×375

/ AMMO

Package Type	Units					Dimension (unit mm3)	
	Units/tape	Tape/Inner Box	Rows/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Inner Box	Outer Box
TO-92	3,000	1	120	10	30,000	328×230×42	480×346×235 547×407×268

/ Notices