

/ Descriptions

Silicon NPN transistor in a TO-18 Plastic Package.

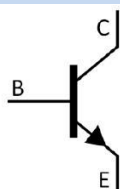
/ Features

Low $V_{CE(sat)}$, excellent DC current gain, complements the 2SB1436.

/ Applications

Strobe flash applications, general power amplifier applications.

/ Equivalent Circuit



/ Pinning



PIN1 Emitter PIN 2 Collector PIN 3 Base

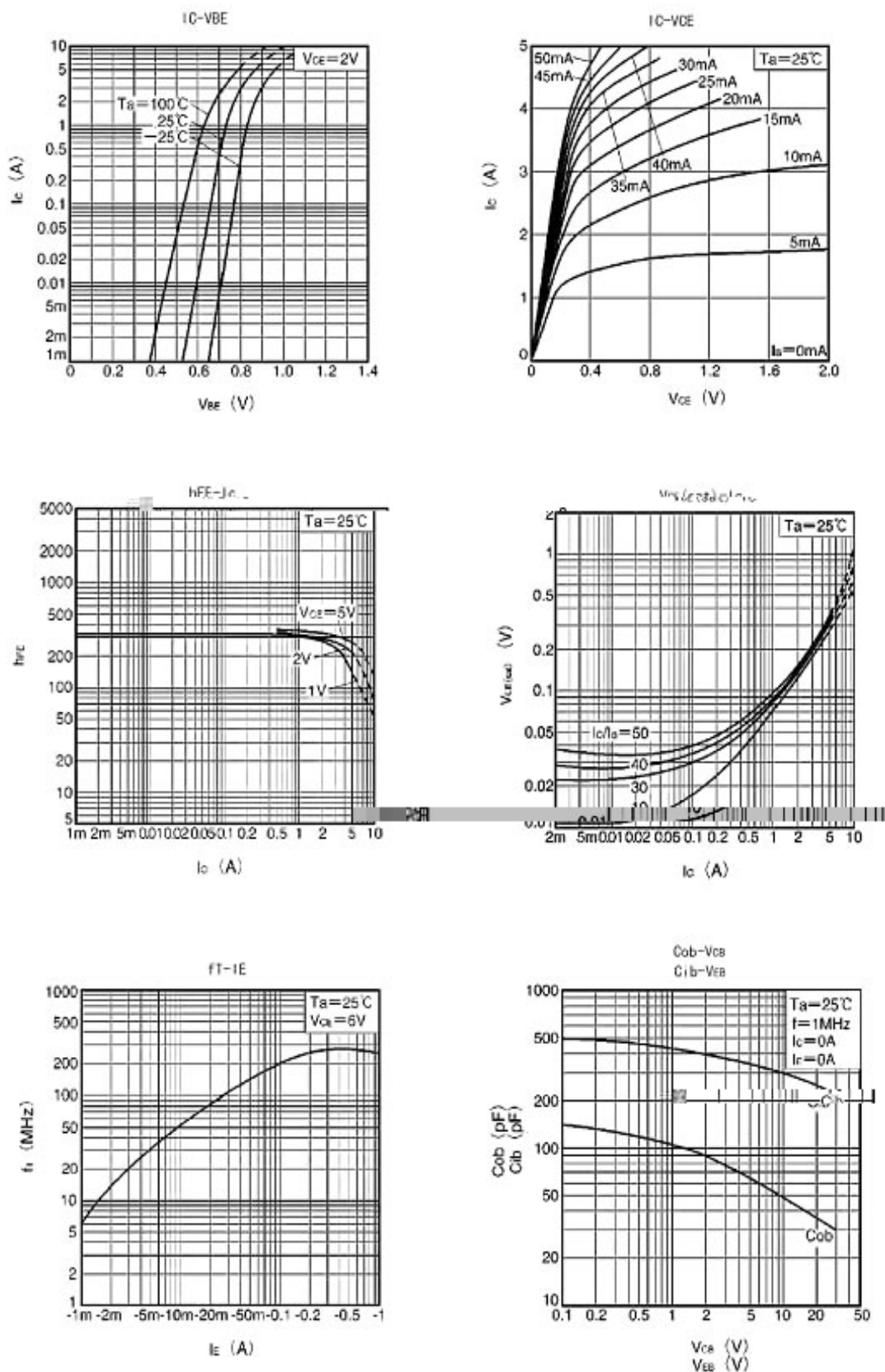
/ h_{FE} Classifications & Marking

h_{FE} Classifications Symbol	Q	R
h_{FE} Range	120 270	180 390

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	50	V
Collector to Emitter Voltage	V_{CEO}	20	V
Emitter to Base Voltage	V_{EBO}	6.0	V
Collector Current - Continuous	I_C	5.0	A
Collector Current – Continuous(Pulse)	I_{CP}	10	A
Collector Power Dissipation	P_C	1.5	W
Collector Power Dissipation	$P_C(T_c=25^\circ C)$	5.0	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}		

Applicable to 2SD2166, 2SD2166-1, 2SD2166-2, 2SD2166-3, 2SD2166-4, 2SD2166-5, 2SD2166-6, 2SD2166-7, 2SD2166-8, 2SD2166-9, 2SD2166-10, 2SD2166-11, 2SD2166-12, 2SD2166-13, 2SD2166-14, 2SD2166-15, 2SD2166-16, 2SD2166-17, 2SD2166-18, 2SD2166-19, 2SD2166-20, 2SD2166-21, 2SD2166-22, 2SD2166-23, 2SD2166-24, 2SD2166-25, 2SD2166-26, 2SD2166-27, 2SD2166-28, 2SD2166-29, 2SD2166-30, 2SD2166-31, 2SD2166-32, 2SD2166-33, 2SD2166-34, 2SD2166-35, 2SD2166-36, 2SD2166-37, 2SD2166-38, 2SD2166-39, 2SD2166-40, 2SD2166-41, 2SD2166-42, 2SD2166-43, 2SD2166-44, 2SD2166-45, 2SD2166-46, 2SD2166-47, 2SD2166-48, 2SD2166-49, 2SD2166-50, 2SD2166-51, 2SD2166-52, 2SD2166-53, 2SD2166-54, 2SD2166-55, 2SD2166-56, 2SD2166-57, 2SD2166-58, 2SD2166-59, 2SD2166-60, 2SD2166-61, 2SD2166-62, 2SD2166-63, 2SD2166-64, 2SD2166-65, 2SD2166-66, 2SD2166-67, 2SD2166-68, 2SD2166-69, 2SD2166-70, 2SD2166-71, 2SD2166-72, 2SD2166-73, 2SD2166-74, 2SD2166-75, 2SD2166-76, 2SD2166-77, 2SD2166-78, 2SD2166-79, 2SD2166-80, 2SD2166-81, 2SD2166-82, 2SD2166-83, 2SD2166-84, 2SD2166-85, 2SD2166-86, 2SD2166-87, 2SD2166-88, 2SD2166-89, 2SD2166-90, 2SD2166-91, 2SD2166-92, 2SD2166-93, 2SD2166-94, 2SD2166-95, 2SD2166-96, 2SD2166-97, 2SD2166-98, 2SD2166-99, 2SD2166-100

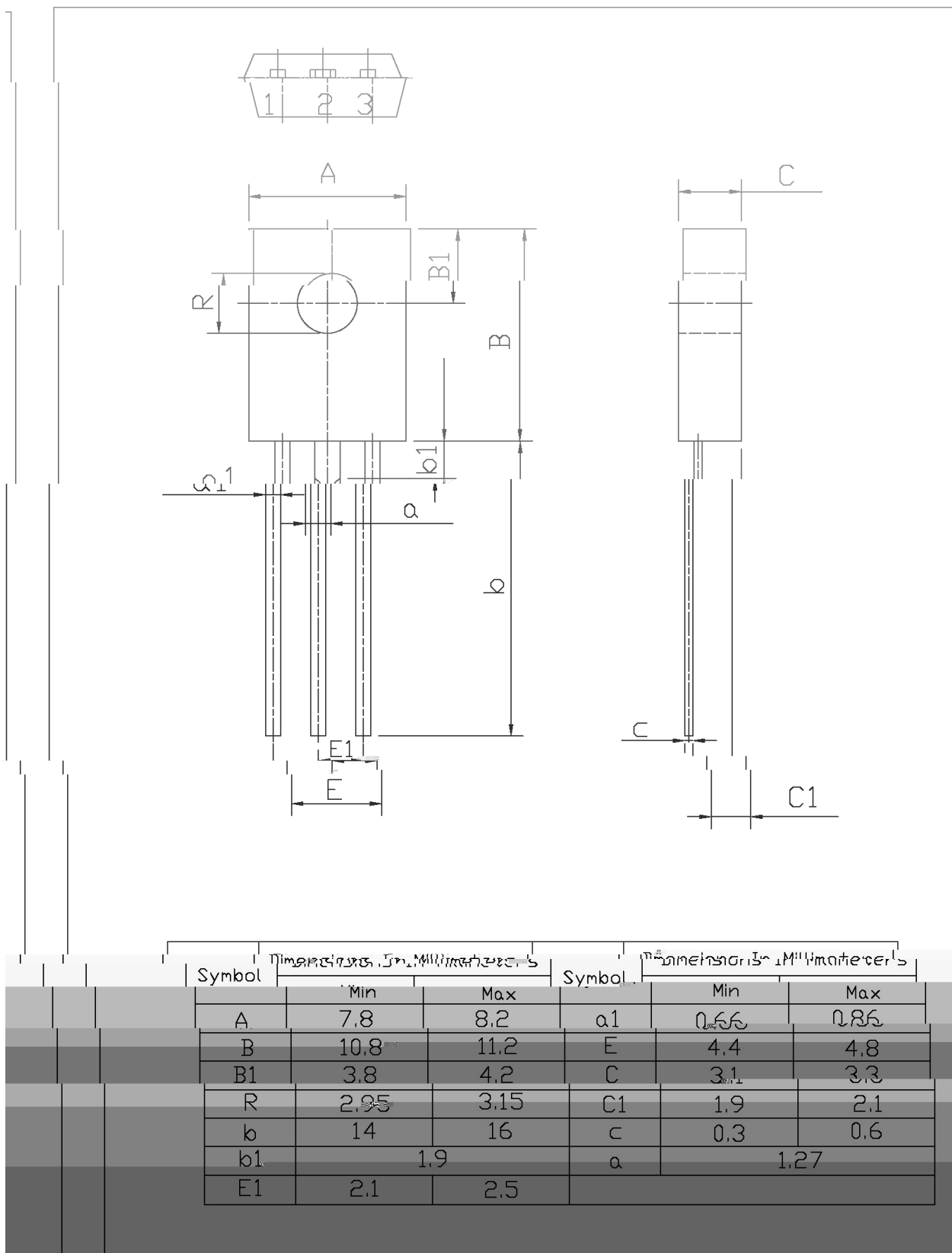
/ **Electrical Characteristic Curve**



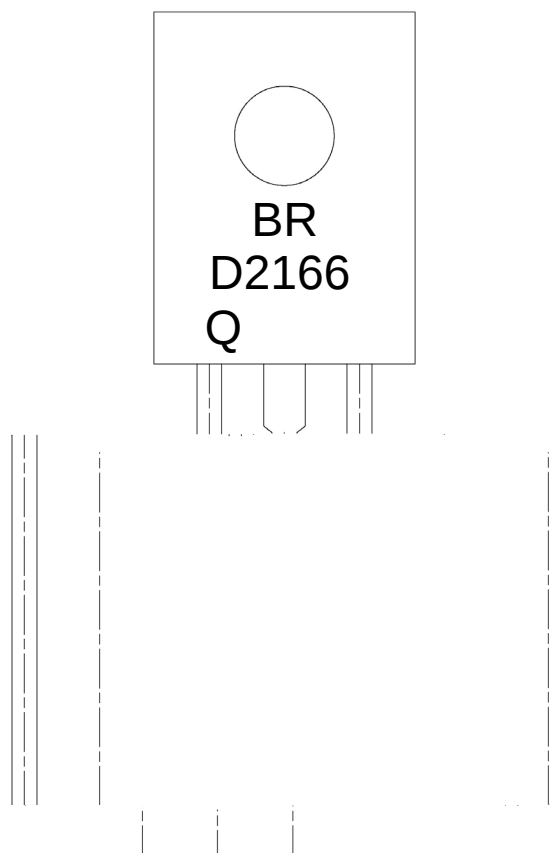
/ Package Dimensions

2SD2166

单位: mm



/ Marking Instructions



Note:

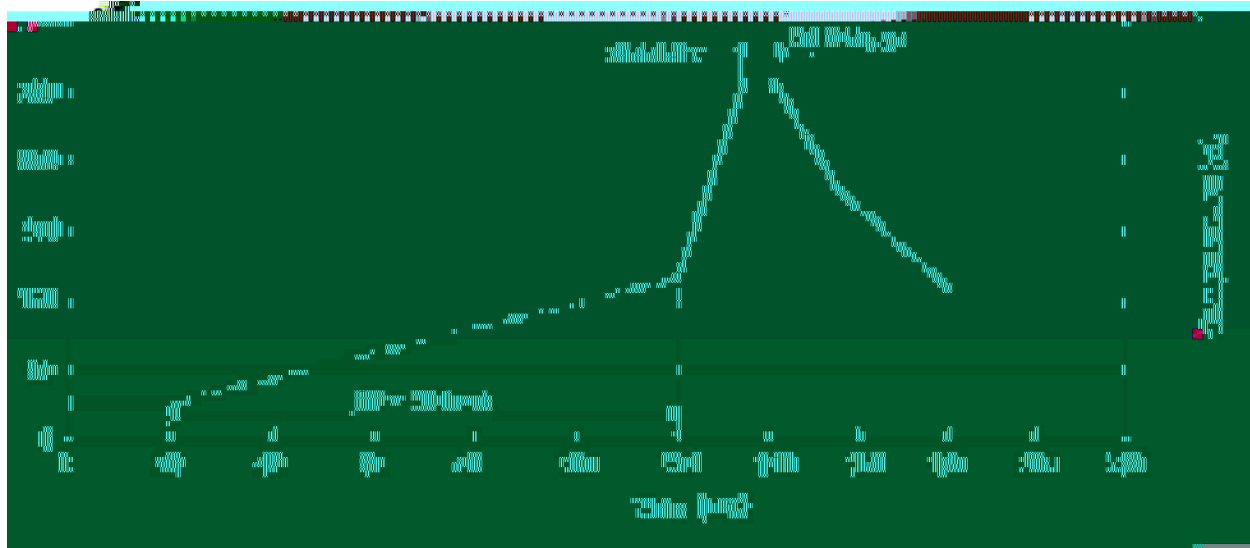
BR: Company Code

D2166: Product Type.

Q: 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

/ Packaging SPEC.

/ BULK

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

/ TUBE

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

/ Notices