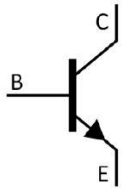


TO-220F      NPN      Silicon NPN transistor in a TO-220F Plastic Package.

2SB1063

Excellent  $h_{FE}$ , wide ASO, high  $f_T$ . complementary to 2SB1063.

High power amplifier application.



PIN1 Base      PIN 2 Collector      PIN 3 Emitter

$h_{FE}$ Classifications Symbol	Q	P
$h_{FE}$ Range	60 120	100 200

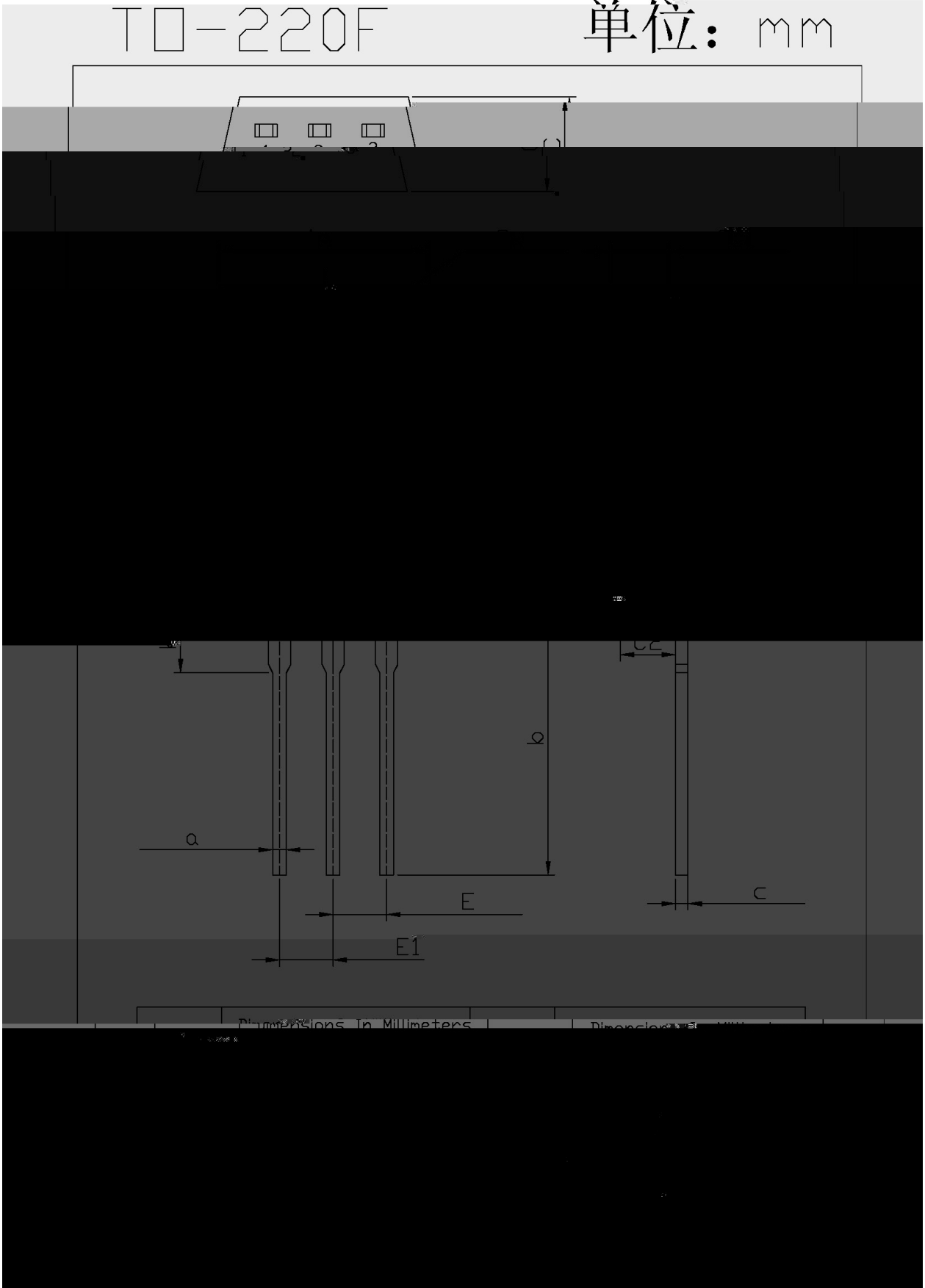
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	$V_{CBO}$	100	V
Collector to Emitter Voltage	$V_{CEO}$	100	V
Emitter to Base Voltage	$V_{EBO}$	5.0	V
Collector Current - Continuous	$I_C$	5.0	A
Collector Current – Continuous(Pulse)	$I_{CP}$	8.0	A
Collector Power Dissipation	$P_C$	2.0	W
Collector Power Dissipation	$P_C(T_C=25^\circ\text{C})$	40	W
Junction Temperature	$T_j$	150	
Storage Temperature Range	$T_{stg}$	-55 150	

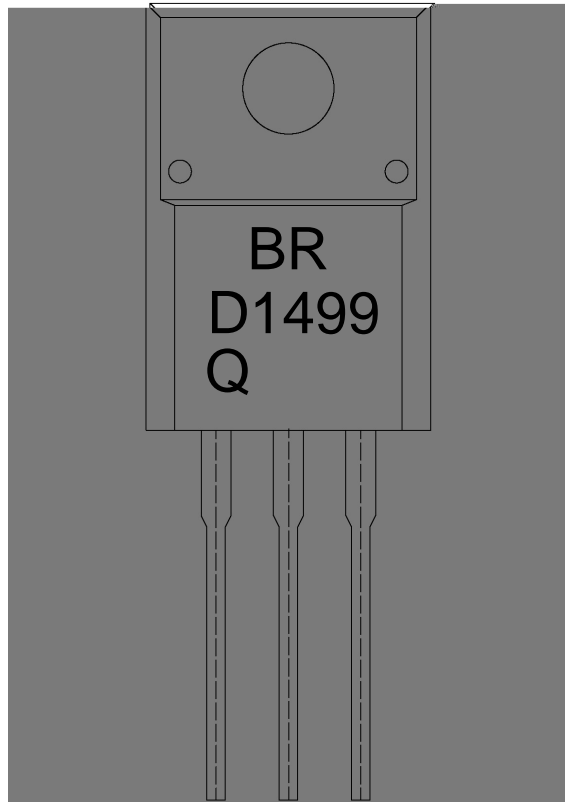
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-Off Current	$I_{CBO}$	$V_{CB}=100V$ $I_E=0$			50	$\mu A$
Emitter Cut-Off Current	$I_{EBO}$	$V_{EB}=3.0V$ $I_C=0$			50	$\mu A$
DC Current Gain	$h_{FE(1)}$	$V_{CE}=5.0V$ $I_C=1.0A$	60		200	
	$h_{FE(2)}$	$V_{CE}=5.0V$ $I_C=3.0A$	20			
	$h_{FE(3)}$	$V_{CE}=5.0V$ $I_C=20mA$	20			
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=3.0A$ $I_B=0.3A$			2.0	V
Base to Emitter Voltage	$V_{BE}$	$V_{CE}=5.0V$ $I_C=3.0A$			1.8	V
Transition Frequency	$f_T$	$V_{CE}=5.0V$ $I_C=0.5A$ $f=1.0MHz$		20		MHz
Collector output capacitance	$C_{ob}$	$V_{CB}=10V$ $f=1.0MHz$		90		pF



TO-220F

单位: mm





BR

D1499

Q:  $h_{FE}$

\*\*\*\*

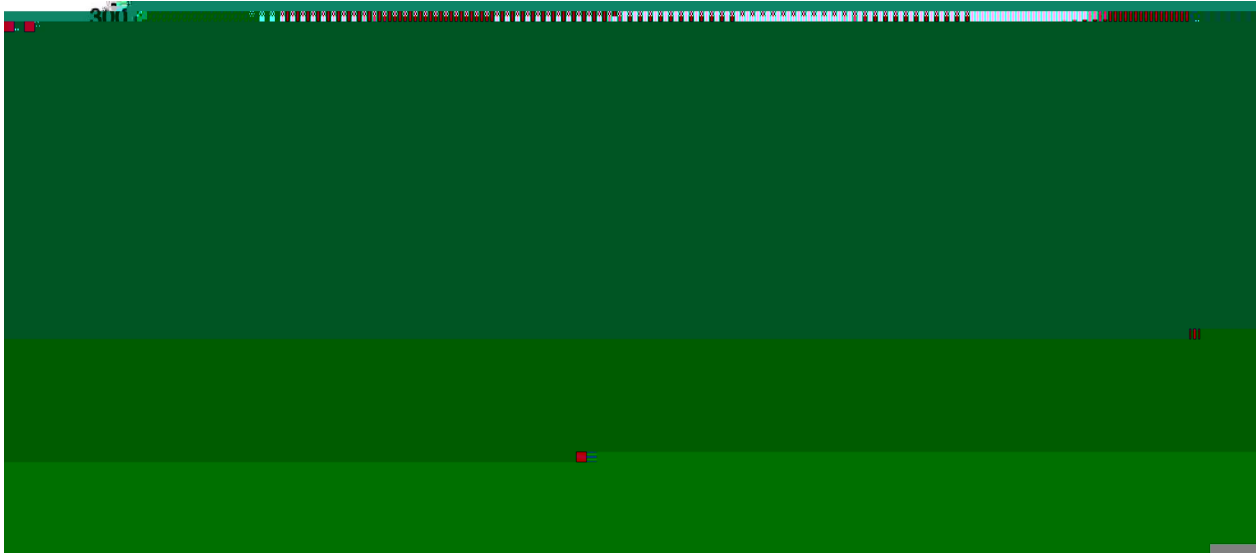
Note:

BR: Company Code.

D1499: Product Type.

Q:  $h_{FE}$  Classifications Symbol

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



- |   |       |     |           |        |   |                                      |
|---|-------|-----|-----------|--------|---|--------------------------------------|
| 1 | 25    | 150 | 60        | 90sec; | Note:                                   | 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.            |                                      |

270±5	10±1 sec.	Temp.:270±5	Time:10±1 sec
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/ BULK

Package Type	Units	Dimension	(unit mm <sup>3</sup> )
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