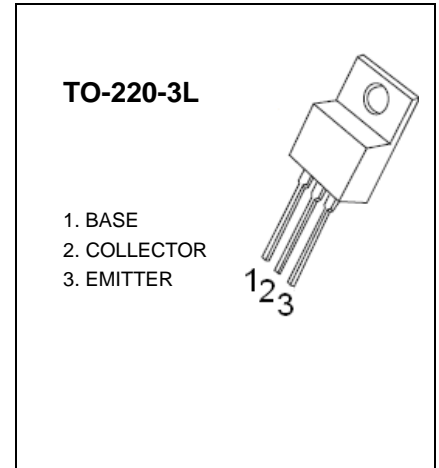


2SD880 TRANSISTOR (NPN)

FEATURES

- Low Frequency Power Amplifier
- Complement to 2SB834



MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

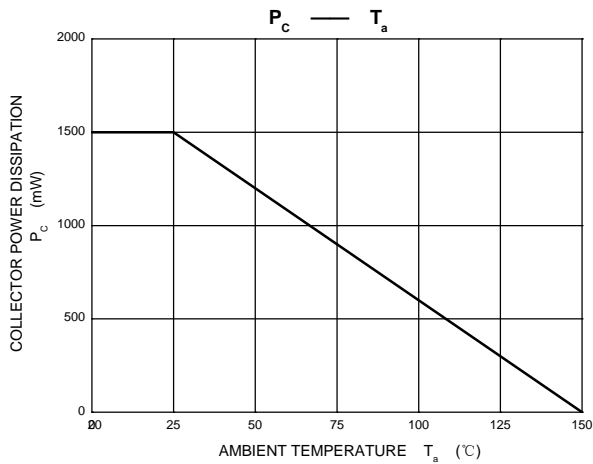
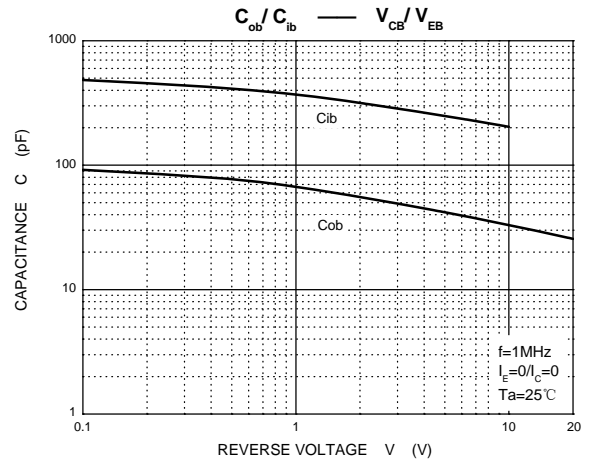
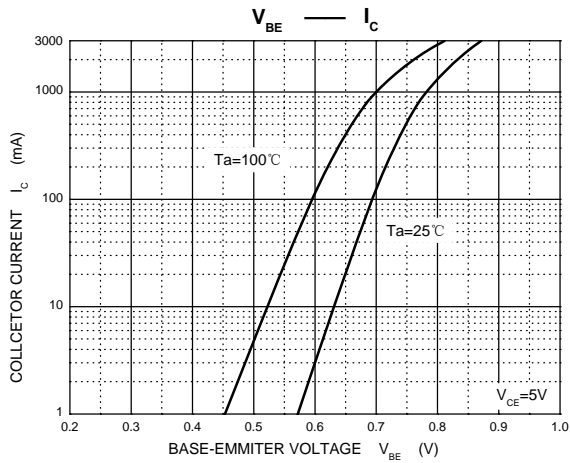
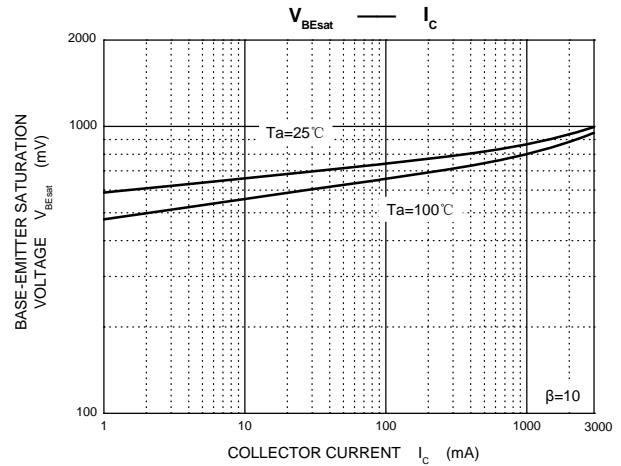
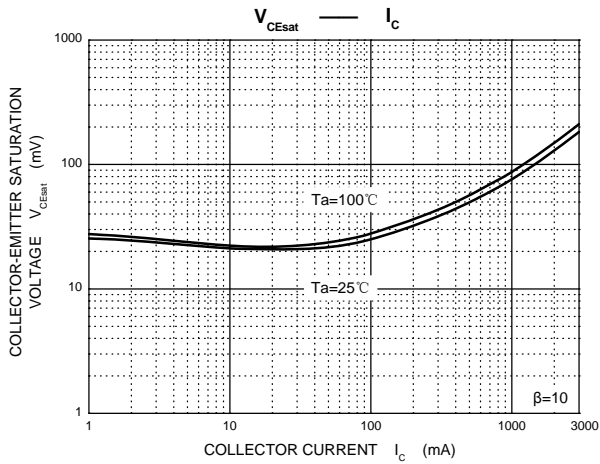
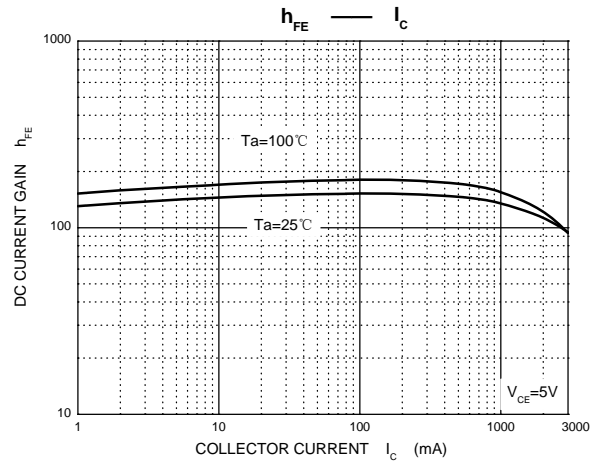
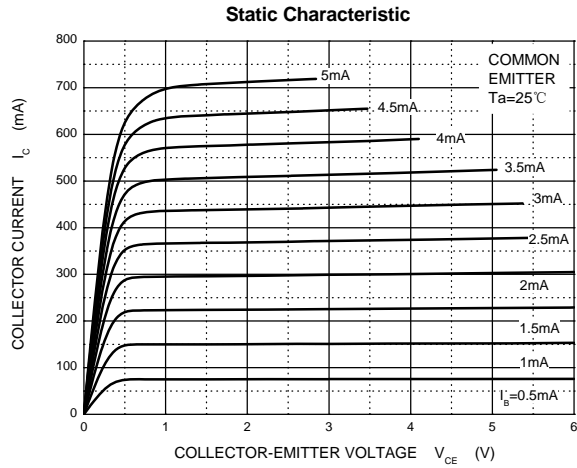
Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	60	V
V _{CEO}	Collector-Emitter Voltage	60	V
V _{EBO}	Emitter-Base Voltage	7	V
I _C	Collector Current -Continuous	3	A
P _C	Collector Power Dissipation	1.5	W
T _J , T _{stg}	Operation Junction and Storage Temperature Range	-55-150	°C

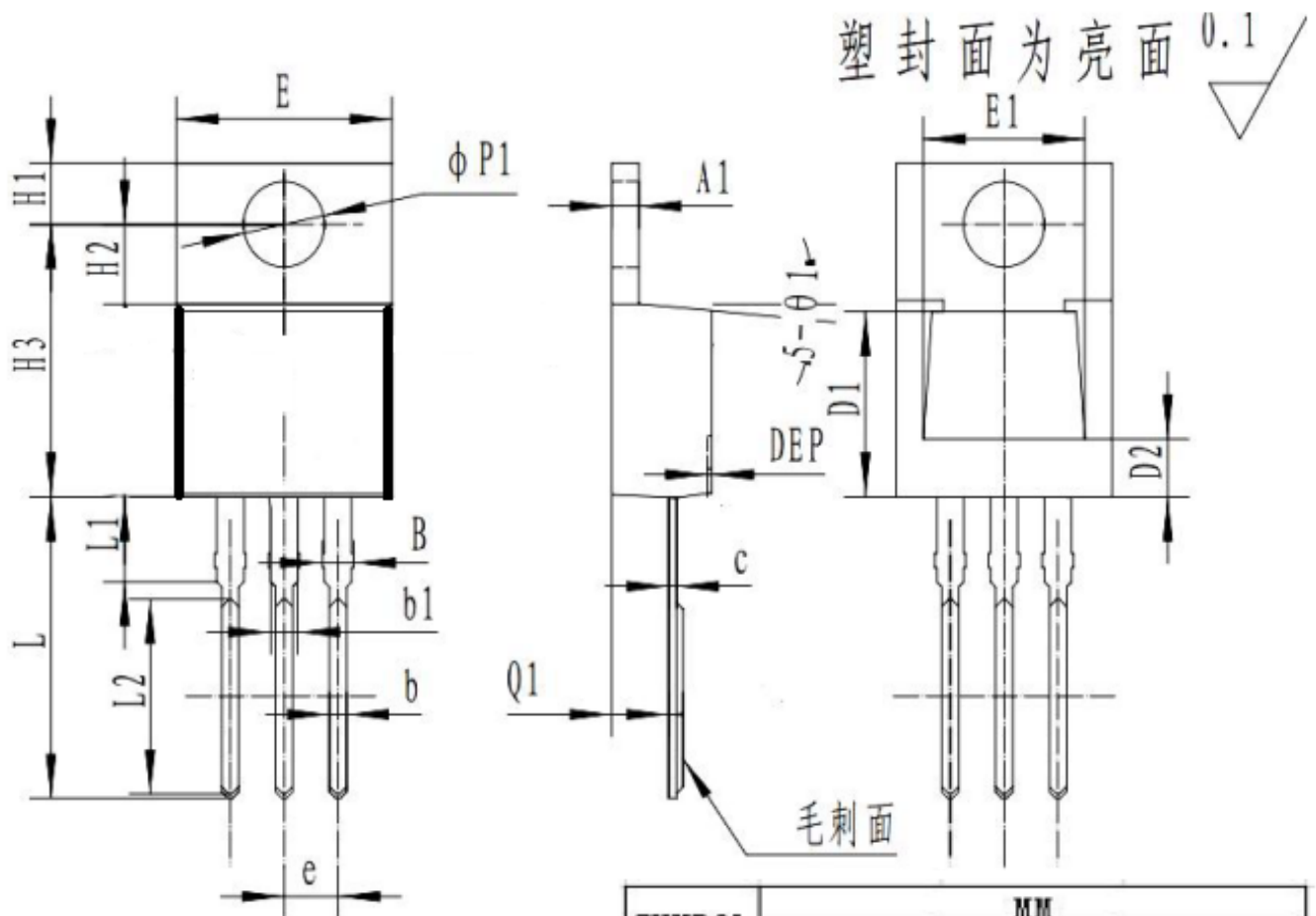
ELECTRICAL CHARACTERISTICS (T_a=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =100μA, I _E =0	60			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =50mA, I _B =0	60			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E = 100μA, I _C =0	7			V
Collector cut-off current	I _{CBO}	V _{CB} =60V, I _E =0			100	μA
Emitter cut-off current	I _{EBO}	V _{EB} =7V, I _C =0			100	μA
DC current gain	h _{FE}	V _{CE} =5V, I _C =500mA	60		300	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =3A, I _B =300mA			1	V
Base-emitter voltage	V _{BE}	I _C =0.5A, V _{CE} = 5V			1	V
Transition Frequency	f _T	V _{CE} =5 V, I _C =500mA		3		MHz
Collector output capacitance	C _{ob}	V _{CB} =10V, I _E =0, f=1MHz		40		pF
Turn on time	t _{on}	I _{B1} =-I _{B2} =0.2A, I _C =2A V _{CC} =30V, PW=20μs		0.8		μs
Storage time	t _s			1.5		μs
Fall time	t _f			0.8		μs

CLASSIFICATION OF h_{FE}

Rank	O	Y	GR
Range	60-120	100-200	150-300





SYMBOL	MM		
	MIN	NOM	MAX
*A	4.60	4.70	4.80
A1	1.22	1.27	1.32
*b	0.76	0.81	0.86
b1	1.22	1.27	1.32
*B	1.27	1.37	1.45
*c	0.33	0.38	0.43
D1	7.60	7.75	7.90
D2	2.50	2.60	2.70
*E	10.00	10.10	10.20
E1	7.70	7.80	7.90
H1	2.64	2.74	2.84
H2	3.46	3.56	3.66
*H3	12.10	12.20	12.30
H4	1.90	2.00	2.10
*e	2.49	2.54	2.59
*L	13.45	3.85	13.85
L1	3.58	3.78	3.98
L2	8.66	8.76	8.86
*Q1	2.59	2.69	2.79
$\theta 1$	3°	5°	7°
$\phi P1$	3.85	3.90	3.95
DEP	0.05	0.10	0.20

带*为检验尺寸

