

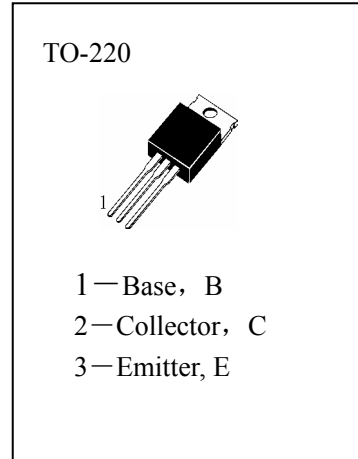
HD880

APPLICATIONS

Low Frequency Power Amplifier.

ABSOLUTE MAXIMUM RATINGS (T_a=25°C)

T _{stg}	Storage Temperature	-55~150°C
T _j	Junction Temperature	150°C
P _C	Collector Dissipation (T _c =25°C)	30W
V _{CBO}	Collector-Base Voltage	60V
V _{CEO}	Collector-Emitter Voltage	60V
V _{EBO}	Emitter-Base Voltage	7V
I _C	Collector Current	3A
I _b	Base Current	0.3A



ELECTRICAL CHARACTERISTICS (T_a=25°C)

Symbol	Characteristics	Min	Typ	Max	Unit	Test Conditions
BV _{CEO}	Collector-Emitter Breakdown Voltage	60			V	I _C =50mA, I _B =0
I _{CBO}	Collector Cut-off Current			100	μ A	V _{CB} =60V, I _E =0
I _{EBO}	Emitter Cut-off Current			100	μ A	V _{EB} =7V, I _C =0
H _{FE} (1)	DC Current Gain	60		300		V _{CE} =5V, I _C =0.5A
H _{FE} (2)	DC Current Gain	20				V _{CE} =5V, I _C =3A
V _{CE(sat)}	Collector- Emitter Saturation Voltage		0.4	1	V	I _C =3A, I _B =0.3A
V _{BE(on)}	Base-Emitter On Voltage		0.7	1	V	V _{CE} =5V, I _C =0.5A
f _t	Current Gain-Bandwidth Product		3		MHz	V _{CE} =5V, I _C =0.5A,
C _{ob}	Output Capacitance		70		pF	V _{CB} =10V, I _E =0, f=1MHz
t _{ON}	Turn-On Time		0.8		μ S	I _{B1} = -I _{B2} =0.2A V _{CC} =30V
t _{STG}	Storage Time		1.5		μ S	
t _F	Fall Time		0.8		μ S	

h_{FE} Classification

O	Y	GR
60—120	100—200	150—300

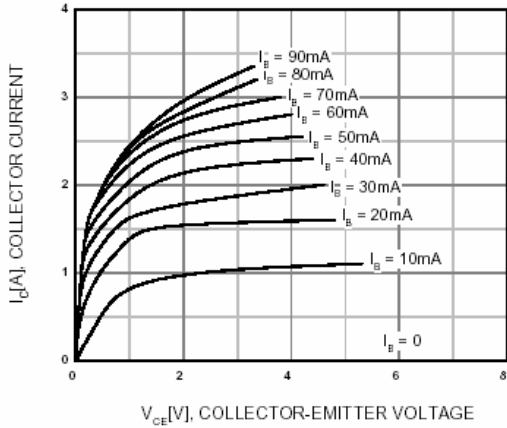


Figure 1. Static Characteristic

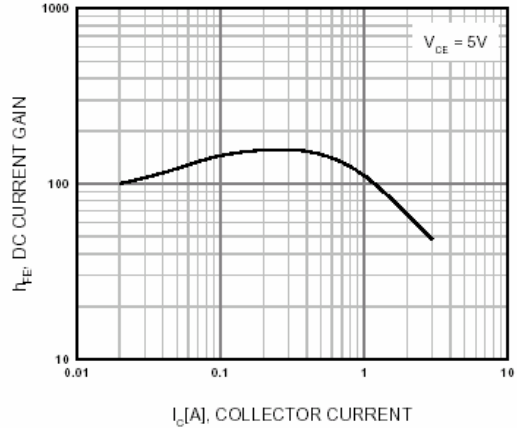


Figure 2. DC current Gain

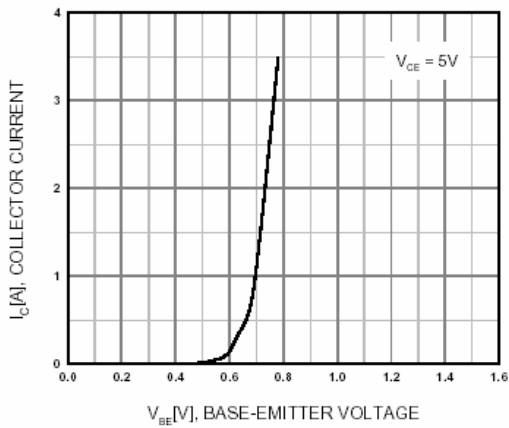


Figure 3. Base-Emitter On Voltage

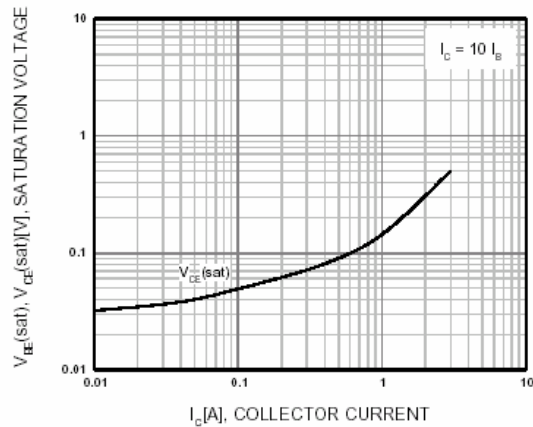


Figure 4. Collector-Emitter Saturation Voltage vs Collector Current

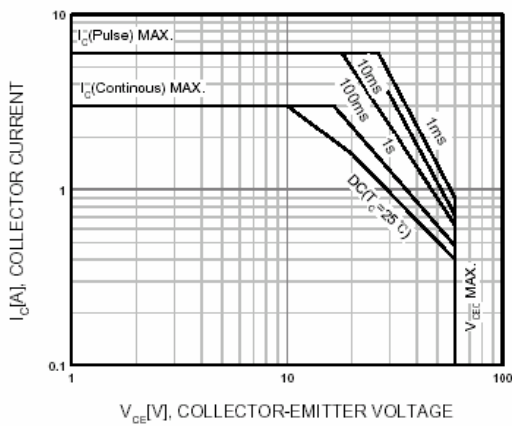


Figure 5. Safe Operating Area

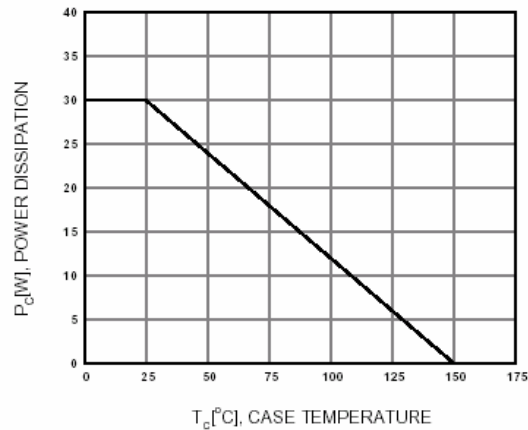


Figure 6. Power Derating