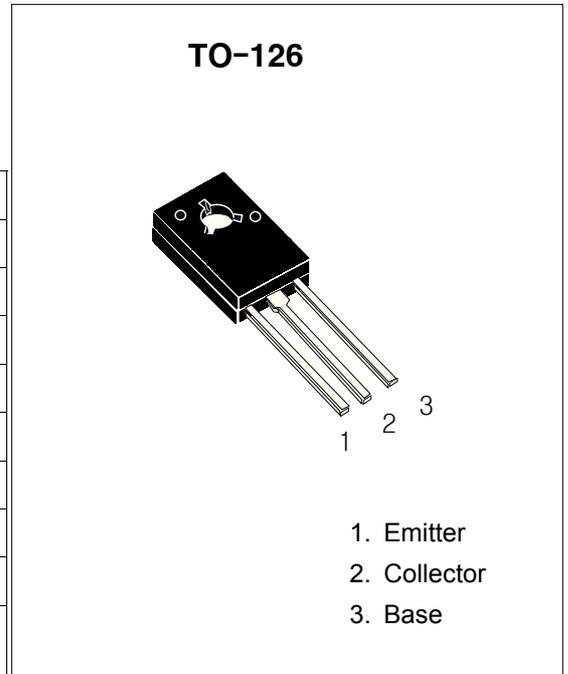


HIGH CURRENT AMPLIFIER

- ◇ Low Collector Saturation Voltage
- ◇ Complement to WSD1691

ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

Characteristic	Symbol	Value	Unit
Collector-Base Voltage	V _{CBO}	-60	V
Collector-Emitter Voltage	V _{CEO}	-60	V
Emitter-Base voltage	V _{EBO}	-7	V
Collector Current(DC)	I _C	-5.0	A
Collector Current(Pulse)	I _C	-8.0	A
Collector Power Dissipation(Tc=25°C)	P _C	20	W
Collector Power Dissipation(Ta=25°C)	P _C	1.3	W
Junction Temperature	T _j	150	°C
Storage Temperature	T _{stg}	-55~+150	°C



ELECTRICAL CHARACTERISTICS

(Ta=25°C, unless otherwise specified)

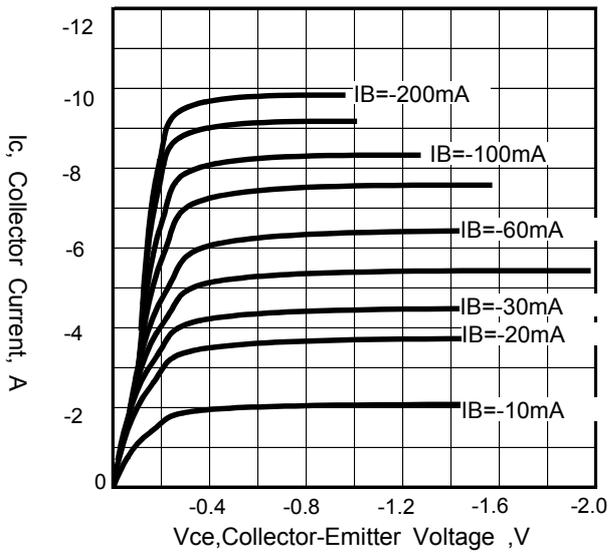
Characteristic	Symbol	Test Condition	Min	TYP	MAX	Unit
Collector Cut-off Current	I _{CBO}	V _{CB} =-50V ,I _E =0			-10	μA
Emitter Cut-off Current	I _{EBO}	V _{EB} =-7V ,I _C =0			-10	μA
*DC Current Gain	h _{FE1} #h _{FE2} h _{FE3}	V _{CE} =-1V ,I _C =-100mA V _{CE} =-1V ,I _C =-2.0A V _{CE} =-2V ,I _C =-5.0A	60 100 50	200	400	
*Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C =-2A, I _B =-200mA		-0.14	-0.3	V
*Base-Emitter Saturation Voltage	V _{BE(sat)}	I _C =-2A, I _B =-200mA		-0.9	-1.2	V
Turn on Time	t _{ON}	I _C =-2.0A, R _L =5Ω		0.15	1	μS
Storage Time	t _{STG}	I _{B1} =-I _{B2} =200mA,		0.78	2.5	μS
Fall Time	t _F	V _{CC} =-10V		0.18	1	μS

* Pulse Test :PW=350μS ,Duty Cycle=2% Pulsed

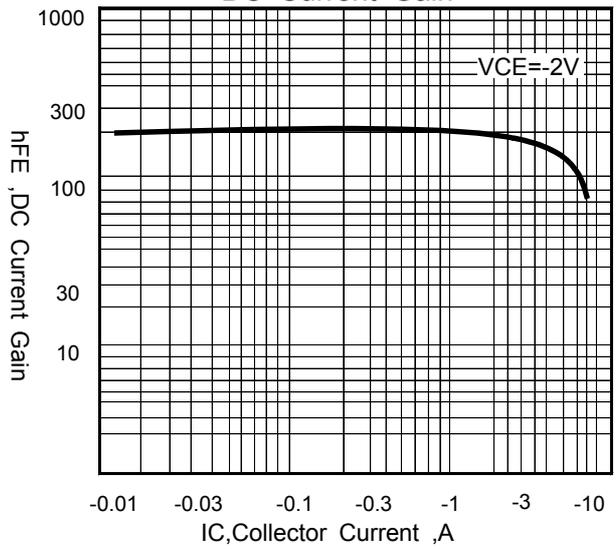
h_{FE}(2) Classification:

Classification	O	Y	G
h _{FE}	100~200	160~320	200~400

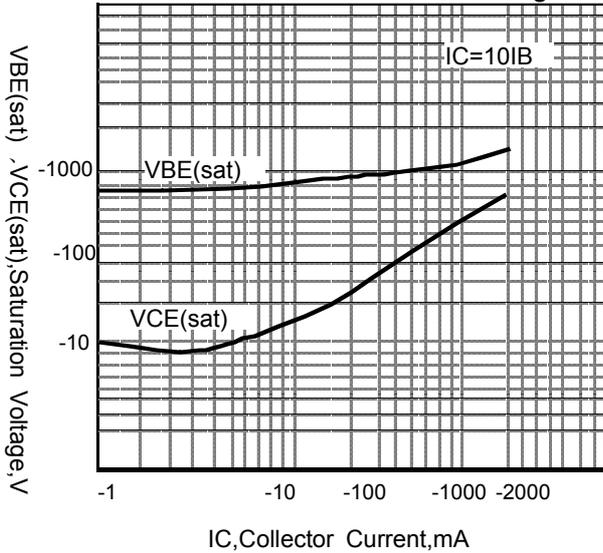
Static Characteristics



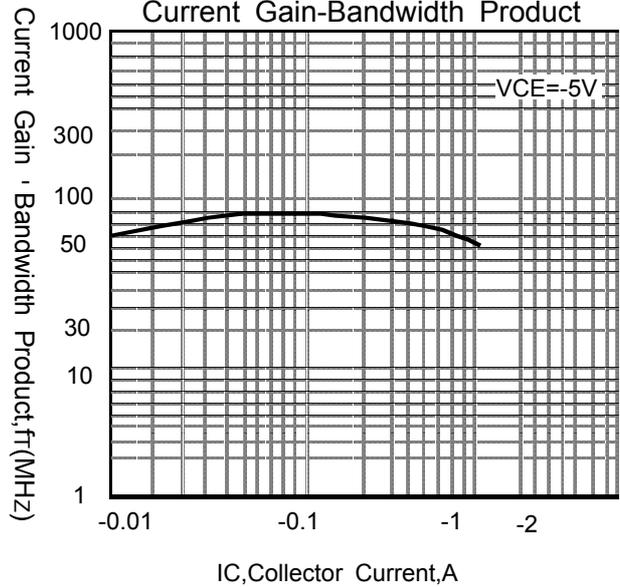
DC Current Gain



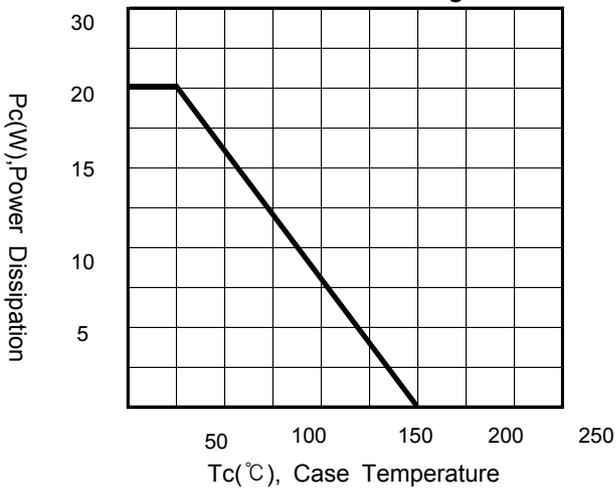
Base Emitter Saturation Voltage
Collector Emitter Saturation Voltage



Current Gain-Bandwidth Product



Power Derating



Safe Operating Area

