

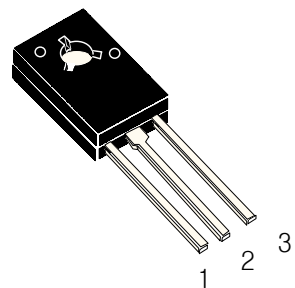
HIGH CURRENT AMPLIFIER

- ◇ Low Collector Saturation Voltage
- ◇ Complement to WSD1691

ABSOLUTE MAXIMUM RATINGS (Ta=25℃)

Characteristic	Symbol	Value	Unit
Collector-Base Voltage	VCBO	-60	V
Collector-Emitter Voltage	VCEO	-60	V
Emitter-Base voltage	VEBO	-7	V
Collector Current(DC)	IC	-5.0	A
Collector Current(Pulse)	IC	-8.0	A
Collector Power Dissipation(Tc=25℃)	PC	20	W
Collector Power Dissipation(Ta=25℃)	PC	1.3	W
Junction Temperature	Tj	150	℃
Storage Temperature	Tstg	-55~+150	℃

TO-126



1. Emitter
2. Collector
3. Base

ELECTRICAL CHARACTERISTICS (Ta=25℃, unless otherwise specified)

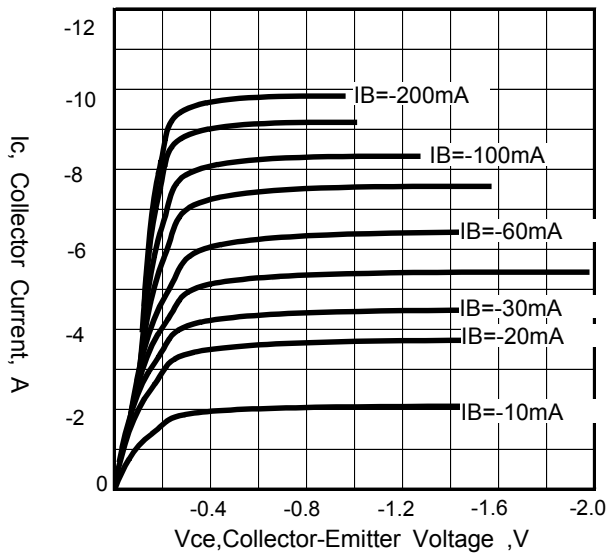
Characteristic	Symbol	Test Condition	Min	TYP	MAX	Unit
Collector Cut-off Current	ICBO	VCB=-50V ,IE=0			-10	μA
Emitter Cut-off Current	IEBO	VEB=-7V ,IC=0			-10	μA
*DC Current Gain	hFE1 #hFE2 hFE3	VCE=-1V ,IC=-100mA VCE=-1V ,IC=-2.0A VCE=-2V, IC=-5.0A	60 100 50	200	400	
*Collector-Emitter Saturation Voltage	VCE(sat)	IC=-2A, IB=-200mA		-0.14	-0.3	V
*Base-Emitter Saturation Voltage	VBE(sat)	IC=-2A, IB=-200mA		-0.9	-1.2	V
Turn on Time	tON	IC=-2.0A, RL=5Ω		0.15	1	μs
Storage Time	tSTG	IB1=-IB2=200mA,		0.78	2.5	μs
Fall Time	tF	VCC=-10V		0.18	1	μs

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

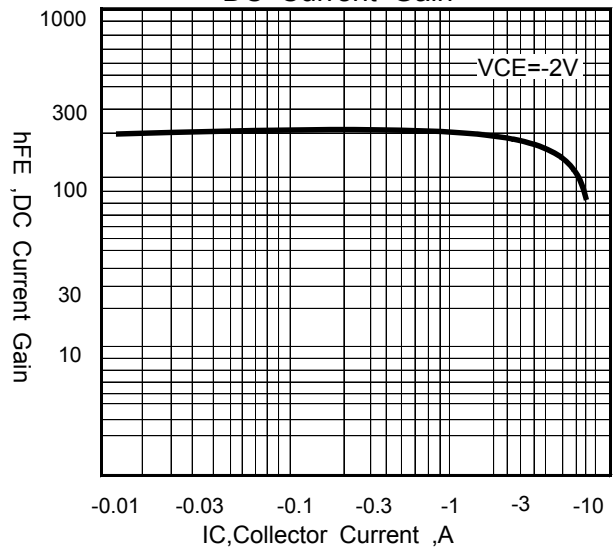
hFE(2) Classification:

Classification	O	Y	G
hFE	100~200	160~320	200~400

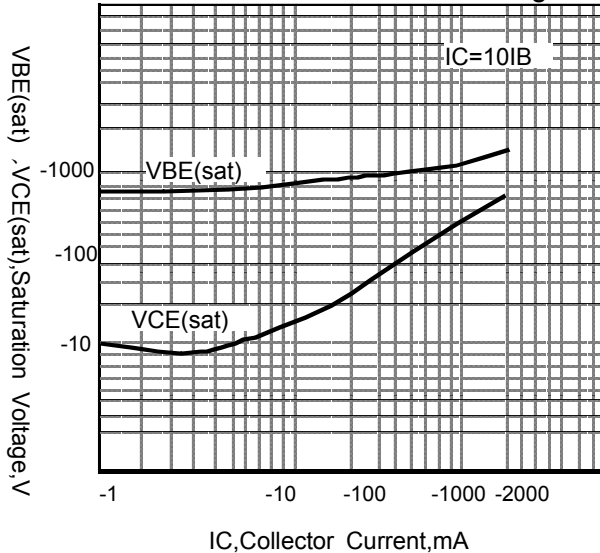
Static Characteristics



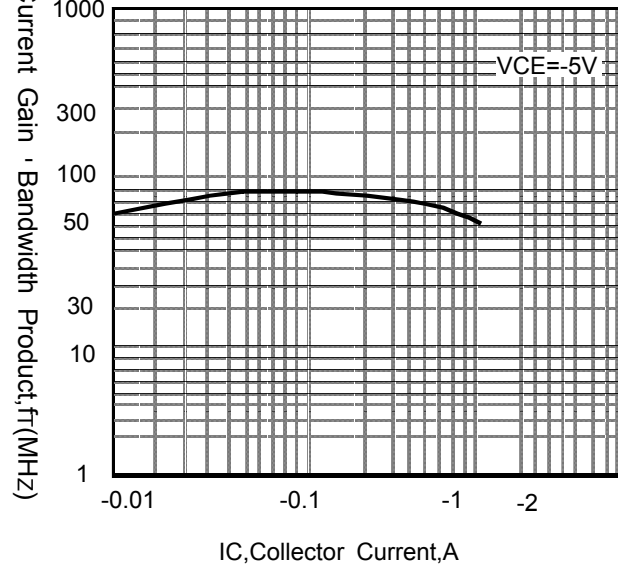
DC Current Gain



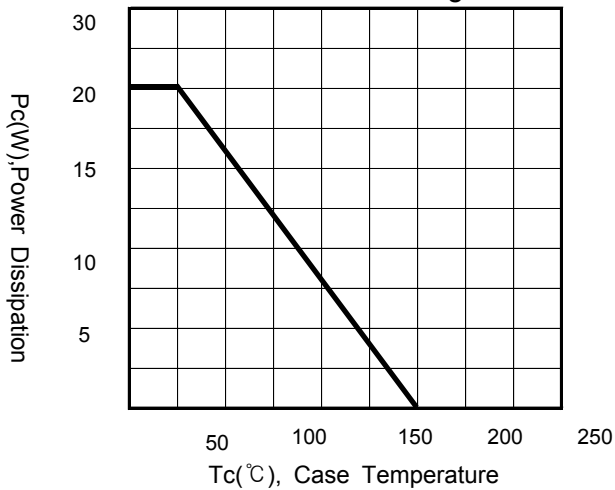
Base Emitter Saturation Voltage
Collector Emitter Saturation Voltage



Current Gain-Bandwidth Product



Power Derating



Safe Operating Area

