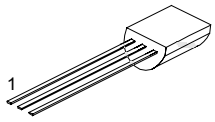
PNP HIGH-VOLTAGE TRANSISTORS

FEATURES

*Collector-Emitter Voltage: V_{CEO}=-250V.

APPLICATIONS

* High voltage application.
* Monitor equipment application.



TO-92

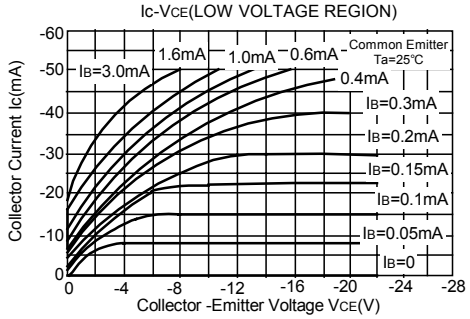
1:EMITTER 2:COLLECTOR 3:BASE

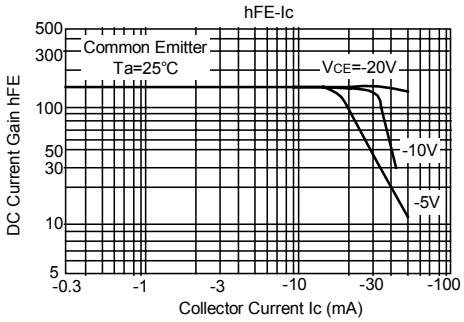
ABSOLUTE MAXIMUM RATINGS (Ta=25°C , unless otherwise specified)

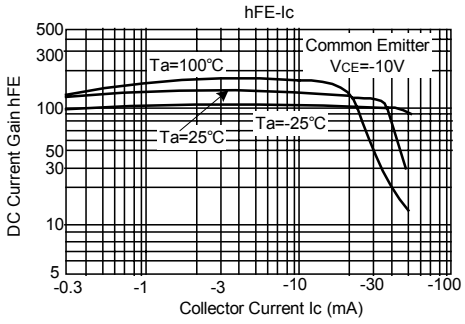
PARAMETERS	SYMBOL	RATING	UNIT
Collector-base voltage	V_{CBO}	-250	V
Collector-emitter voltage	V_{CEO}	-250	V
Emitter-base voltage	V_{EBO}	-5	V
Collector current (DC)	Ic	-50	mA
collector current (Peak)	I_{CP}	-100	mA
base current	I_B	-50	mA
Collector Power dissipation	Pc	625	mW
Junction temperature	Tj	150	°C
Storage Temperature	T_{stg}	-65~+150	°C

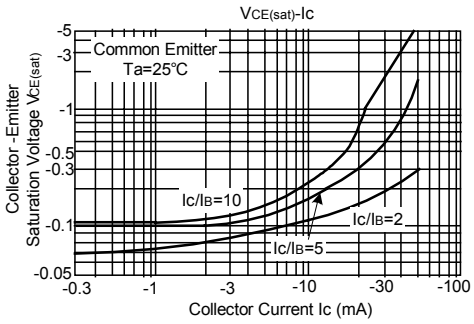
ELECTRICAL CHARACTERISTICS (Ta=25°C, unless otherwise specified)

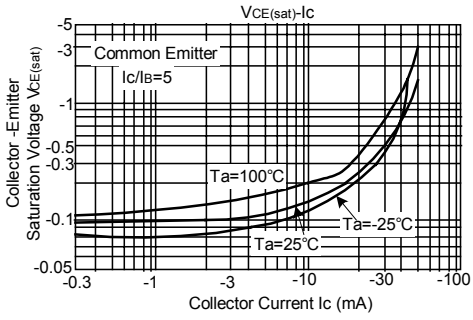
PARAMETERS	SYMBOL	CONDITIONS	MIN	MAX	UNIT
Collector Cut-Off Current	I_{CBO}	V_{CB}= -200V, I_E=0		-10	nA
		V_{CB}= -200V, I_E=0, Tj=150°C		-10	μA
Emitter Cut-Off Current	I_{EBO}	V_{EB}= -5V, Ic=0		-50	nA
DC current gain	hFE	$V_{CE=-20V}$, Ic=-25mA	50		
Collector-emitter saturation voltage	V_{CE}(sat)	Ic= -30mA, I_B= -5mA		-0.6	V
Transition frequency	fT	V_{CE}= -10V ,Ic= -10mA, f=100MHz	60		MHz
Feedback capacitance	Cre	V_{CB}= -30V, I_E=0 f=1MHz		1.6	pF

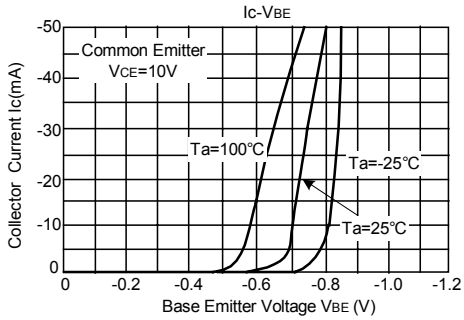

Ic-VCE(LOW VOLTAGE REGION)
Common Emitter
Ta=25°C
IB=3.0mA
1.6mA
1.0mA
0.6mA
0.4mA
IB=0.3mA
IB=0.2mA
IB=0.15mA
IB=0.1mA
IB=0.05mA
IB=0
Collector Current Ic(mA)
Collector -Emitter Voltage VCE(V)

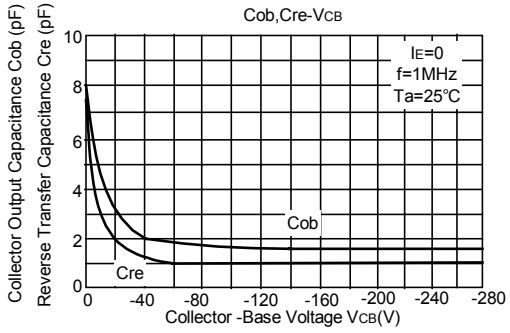

hFE-Ic
Common Emitter
Ta=25°C
VCE=-20V
-10V
-5V
DC Current Gain hFE
Collector Current Ic (mA)

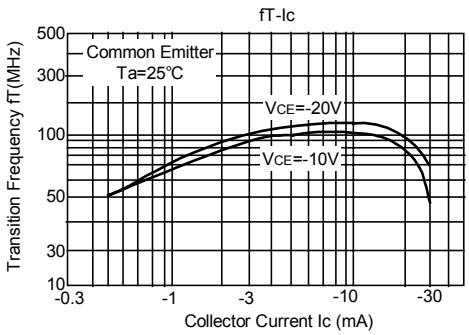

hFE-Ic
Common Emitter
VCE=-10V
Ta=100°C
Ta=25°C
Ta=-25°C
DC Current Gain hFE
Collector Current Ic (mA)

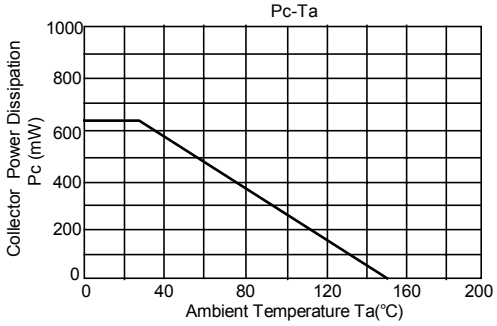

VCE(sat)-Ic
Common Emitter
Ta=25°C
Ic/IB=10
Ic/IB=2
Ic/IB=5
Collector -Emitter Saturation Voltage VCE(sat)
Collector Current Ic (mA)

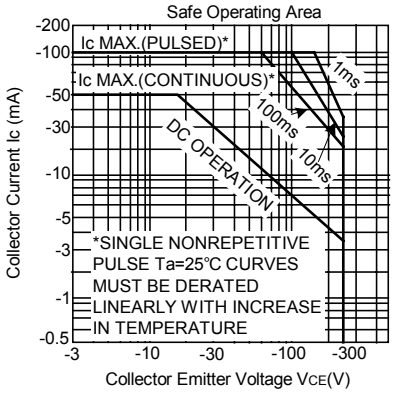

VCE(sat)-Ic
Common Emitter
Ic/IB=5
Ta=100°C
Ta=-25°C
Ta=25°C
Collector -Emitter Saturation Voltage VCE(sat)
Collector Current Ic (mA)


Ic-VBE
Common Emitter
VCE=10V
Ta=100°C
Ta=-25°C
Ta=25°C
Collector Current Ic(mA)
Base Emitter Voltage VBE (V)









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