

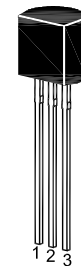
2SC3206

NPN Silicon Epitaxial Planar Transistor

for high voltage switching application, black and white TV video output application.

The transistor is subdivided into two groups, O and Y according to its DC current gain.

On special request, these transistors can be manufactured in different pin configurations.



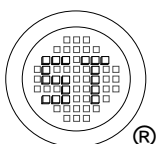
1. Emitter 2. Collector 3. Base
TO-92 Plastic Package

Absolute Maximum Ratings ($T_a = 25\text{ }^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Collector Base Voltage	V_{CBO}	200	V
Collector Emitter Voltage	V_{CEO}	150	V
Emitter Base Voltage	V_{EBO}	5	V
Collector Current	I_C	50	mA
Emitter Current	I_E	-50	mA
Power Dissipation	P_{tot}	1000	mW
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 150	$^\circ\text{C}$

Characteristics at $T_a = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Min.	Typ.	Max.	Unit	
DC Current Gain at $V_{CE} = 5\text{ V}$, $I_C = 10\text{ mA}$ Group	Current Gain O	h_{FE}	70	-	140	-
	Y	h_{FE}	120	-	240	-
Collector Base Cutoff Current at $V_{CB} = 200\text{ V}$	I_{CBO}	-	-	0.1	μA	
Emitter Base Cutoff Current at $V_{EB} = 5\text{ V}$	I_{EBO}	-	-	0.1	μA	
Collector Emitter Saturation Voltage at $I_C = 10\text{ mA}$, $I_B = 1\text{ mA}$	$V_{CE(sat)}$	-	-	0.5	V	
Base Emitter Saturation Voltage at $I_C = 10\text{ mA}$, $I_B = 1\text{ mA}$	$V_{BE(sat)}$	-	-	1	V	
Transition Frequency at $V_{CE} = 30\text{ V}$, $I_C = 10\text{ mA}$	f_T	-	120	-	MHz	
Output Capacitance at $V_{CB} = 10\text{ V}$, $f = 1\text{ MHz}$	C_{ob}	-	3.5	5	pF	

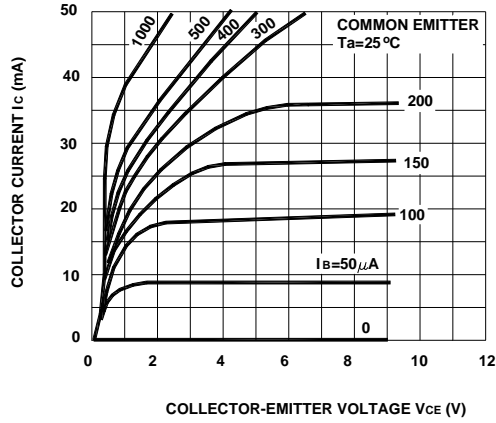


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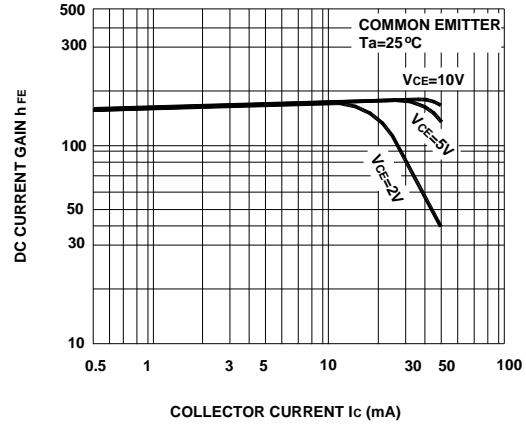


Dated : 20/01/2016 CL Rev: 01

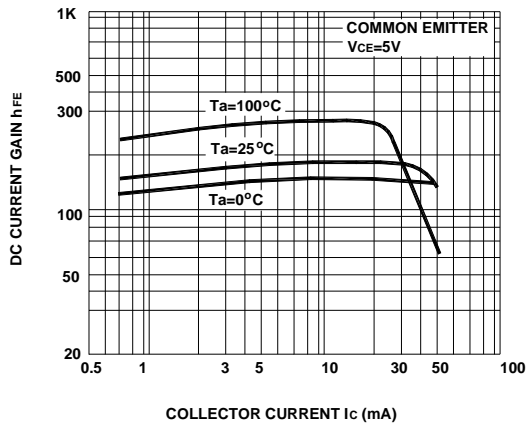
Ic-VCE



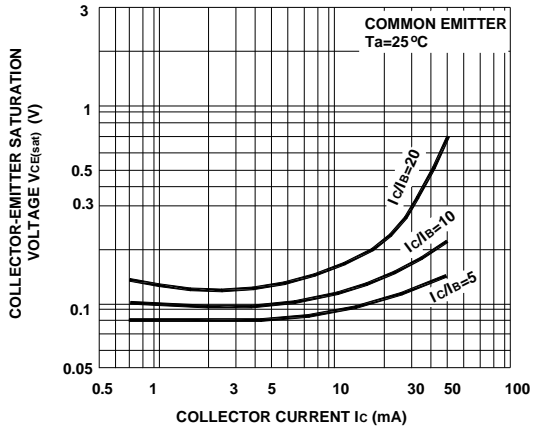
hFE-Ic



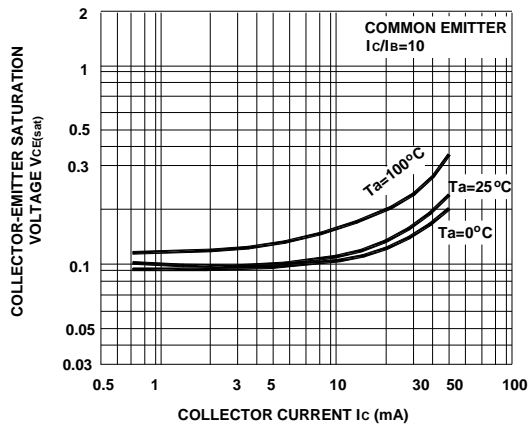
hFE-Ic



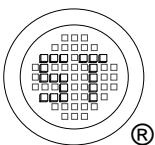
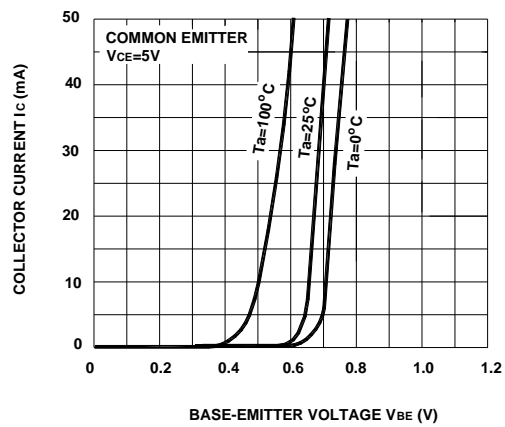
VCE(sat)-Ic



VCE(sat)-Ic



Ic-VBE



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ISO/TS 16949 : 2008
Certificate No. 16073009



ISO14001 : 2004
Certificate No. 7116



ISO 9001 : 2008
Certificate No. 50719410

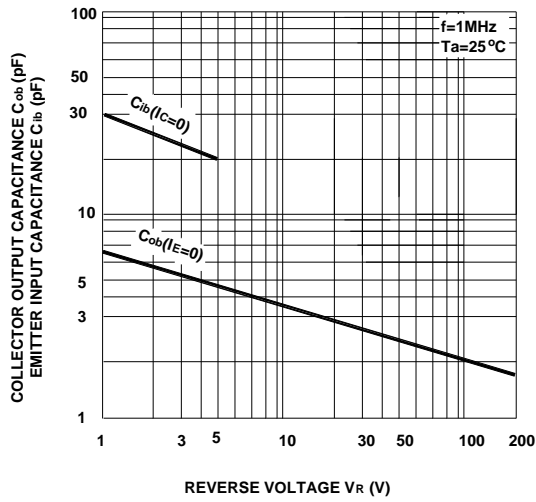


BS-OHSAS 18001 : 2007
Certificate No. 7116

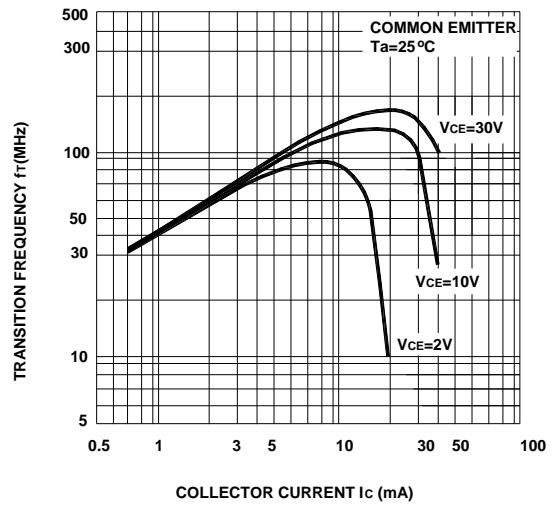


IECQ QC 080000
Certificate No. PRC-HSP4-1483

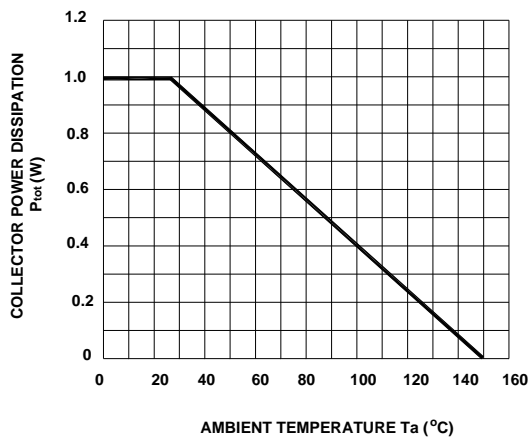
C_{ib}, C_{ob}-V_R



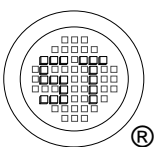
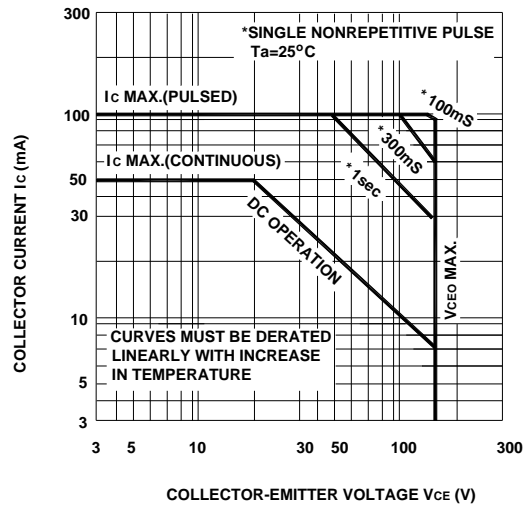
f_T-I_C



P_c-T_a



SAFE OPERATING AREA



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