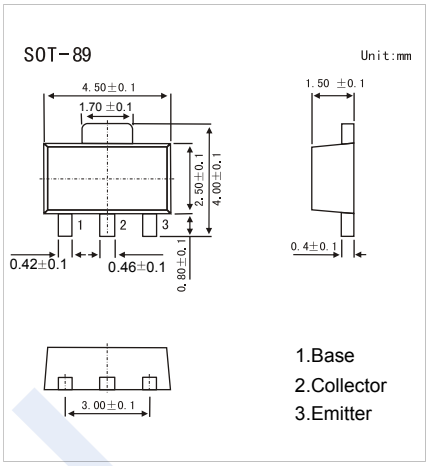
NPN Transistors
2SC2881-HF



■ Features

- Small Flat Package
- High Transition Frequency
- High Voltage
- Complementary to 2SA1201-HF
- Pb−Free Package May be Available. The G−Suffix Denotes a Pb−Free Lead Finish

■ Absolute Maximum Ratings Ta = 25℃

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V_{CBO}	120	V
Collector - Emitter Voltage	V_{CEO}	120	
Emitter - Base Voltage	V_{EBO}	5	
Collector Current - Continuous	I_C	800	mA
Base Current	I_B	160	
Collector Power Dissipation	P_C	500	mW
Thermal Resistance From Junction To Ambient	$R_{\theta JA}$	250	℃/W
Junction Temperature	T_J	150	℃
Storage Temperature Range	T_{stg}	-55 to 150	

■ Electrical Characteristics Ta = 25℃

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V_{CBO}	I_C= 100uA, I_E= 0	120			V
Collector- emitter breakdown voltage	V_{CEO}	I_C= 10mA, I_B= 0	120			
Emitter - base breakdown voltage	V_{EBO}	I_E= 100uA, I_C= 0	5			
Collector-base cut-off current	I_{CBO}	V_{CB}= 120V , I_E= 0			0.1	uA
Emitter cut-off current	I_{EBO}	V_{EB}= 5V , I_C=0			0.1	
Collector-emitter saturation voltage	$V_{CE(sat)}$	I_C=500 mA, I_B=50mA			1	V
Base - emitter saturation voltage	$V_{BE(sat)}$	I_C=500 mA, I_B=50mA			1.2	
Base - emitter voltage	V_{BE}	V_{CE}= 5V, I_C= 0.5A			1	
DC current gain	h_{FE}	V_{CE}= 5V, I_C= 100mA	80		240	
Collector output capacitance	C_{ob}	V_{CB}= 10V, I_E= 0,f=1MHz			30	pF
Transition frequency	f_T	V_{CE}= 5V, I_C= 100mA		120		MHz

■ Classification of h_{fe}

Type	2SC2881-O-HF	2SC2881-Y-HF
Range	80-160	120-240
Marking	CO*$_F$	CY*$_F$

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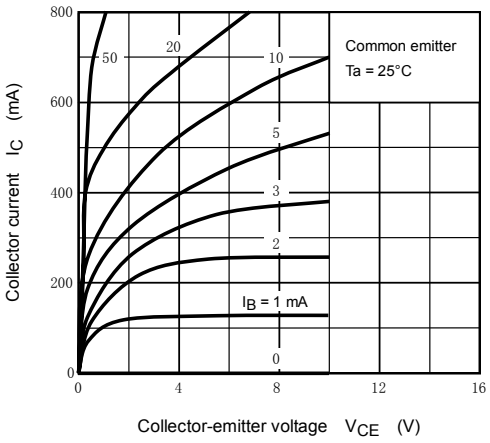
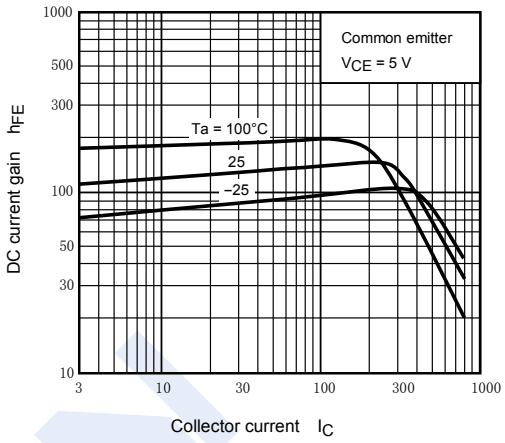
■ Typical Characterisitics

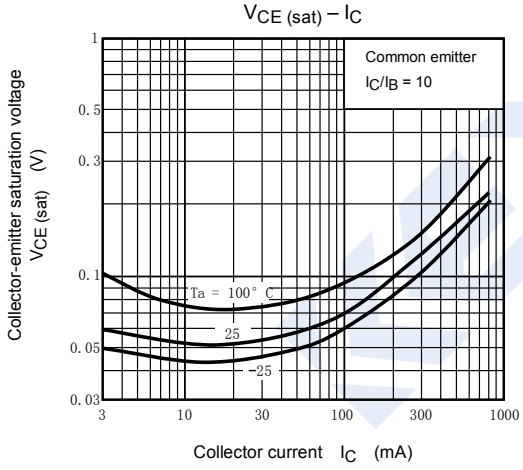
$I_C - V_{CE}$



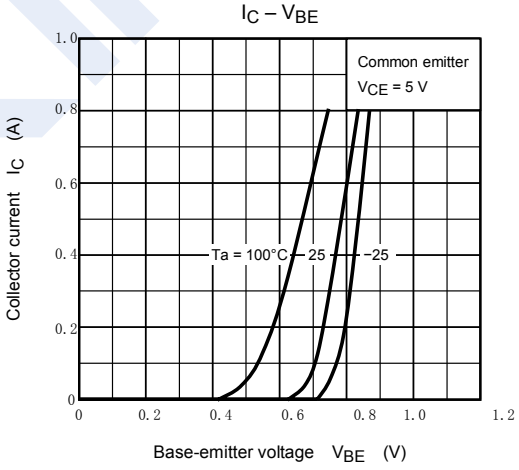
$h_{FE} - I_C$



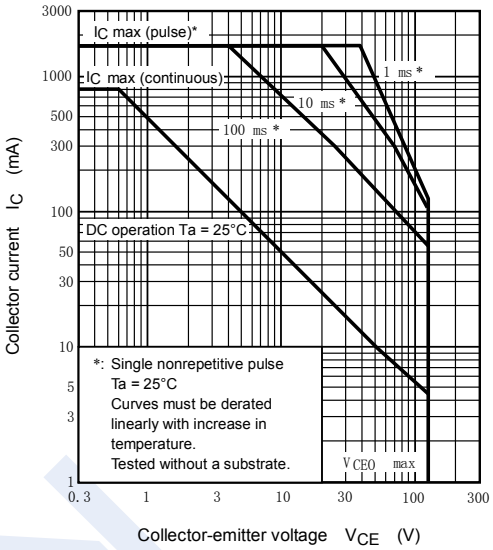
$V_{CE\ (sat)} - I_C$



$I_C - V_{BE}$



Safe Operating Area



$P_C - Ta$