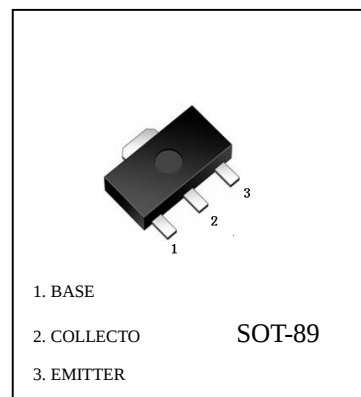


FEATURES

- High voltage: $V_{CEO}=120V$
- High transition frequency; $f_T=120MHz$.
- $P_C=500mW$.
- Complements the 2SA1201.

2SC2881 (NPN)



Maximum Ratings ($T_a=25\text{ }^{\circ}C$ unless otherwise noted)

Parameter	Symbol	Value	Unit
Collector-Base Voltage	V_{CBO}	120	V
Collector-Emitter Voltage	V_{CEO}	120	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current -Continuous	I_C	0.8	A
Collector Power dissipation	P_C	0.5	W
Junction Temperature	T_J	150	$^{\circ}C$
Storage Temperature	T_{stg}	-55to +150	$^{\circ}C$

ELECTRICAL CHARACTERISTICS (@ $T_a=25\text{ }^{\circ}C$ unless otherwise specified)

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

CLASSIFICATION OF h_{FE}

Rank	O	Y
Range	80-160	120-240
Marking	CO1	CY1