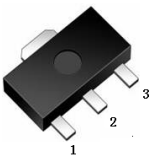
2SC2884 (NPN)

FEATURES

- Suitable for output stage of 3 watts amplifier.
- High DC current gain.
- Small flat package.
- P_C=1.0 to 2.0W.
- Complements the 2SA1204.



1. BASE
2. COLLECTO
3. EMITTER

SOT-89

Maximum Ratings (Ta=25 ℃ unless otherwise noted)

Parameter	Symbol	Value	Unit
Collector-Base Voltage	V_{CBO}	35	V
Collector-Emitter Voltage	V_{CEO}	30	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	℃
Storage Temperature	Tstg	-55to +150	℃

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

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-emitter breakdown voltage	V_{CEO}	I_C=10mA,I_B=0	35			V
Collector cut-off current	I_{CBO}	V_{CB}=35V,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}=1V,I_C=100mA	100		320	
Collector-emitter saturation voltage	$V_{CE(sat)}$	I_C=0.5A, I_B=0.02A			0.5	V
Base-emitter voltage	V_{BE}	V_{CE}=1V, I_C=10mA	0.5		0.8	V
Transition frequency	f_T	V_{CE}=5V,I_c=10mA		120		MHz
Collector output capacitance	C_{ob}	V_{CB}=10V,I_E=0,f=1MHz		13		pF

CLASSIFICATION OF h_{FE}

Rank	O	Y
Range	100-200	160-320
Marking	PO1	PY1

2SC2884 Typical Characteristics