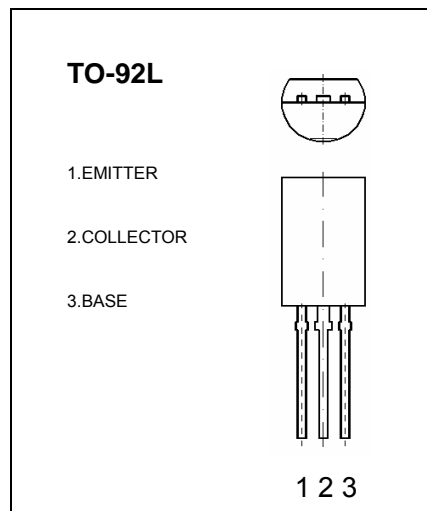


TO-92L Plastic-Encapsulate Transistors

2SC1383 TRANSISTOR (NPN)
2SC1384

FEATURES

- Low collector to emitter saturation voltage $V_{CE(sat)}$.
- Complementary pair with 2SA0683 and 2SA0684.



MAXIMUM RATINGS (T_A=25°C unless otherwise noted)

Symbol	Parameter	2SC1383	2SC1384	Units
V _{CB0}	Collector-Base Voltage	30	60	V
V _{CE0}	Collector-Emitter Voltage	25	50	V
V _{EBO}	Emitter-Base Voltage	5		V
I _C	Collector Current –Continuous	1		A
P _C	Collector Power Dissipation	1		W
T _J	Junction Temperature	150		°C
T _{stg}	Storage Temperature	-55-150		°C

ELECTRICAL CHARACTERISTICS (T_{amb}=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =10μA, I _E =0	2SC1383	30		V
			2SC1384	60		
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =2mA, I _B =0	2SC1383	25		V
			2SC1384	50		
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E = 10μA, I _C =0	5			V
Collector cut-off current	I _{CBO}	V _{CB} =20V, I _E =0			0.1	μA
DC current gain	h _{FE(1)}	V _{CE} =10V, I _C =500mA	85		340	
	h _{FE(2)}	V _{CE} =5V, I _C =1A	50			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =500m A, I _B =50mA			0.4	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C =500mA, I _B =50mA			1.2	V
Transition frequency	f _T	V _{CE} =10V, I _C =50mA		200		MHz

CLASSIFICATION OF h_{FE(1)}

Rank			
Range	100-200	200-300	300-400