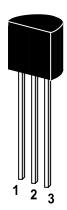
NPN Silicon Epitaxial Planar Transistor

For low-frequency power amplification and driver Amplification. Complementary to 2SA683 to and 2SA684.

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



1. Emitter 2. Collector 3. Base

TO-92 Plastic Package Weight approx. 0.19g

Absolute Maximum Ratings (T_a = 25 °C)

		Symbol	Value	Unit
Collector Base Voltage	2SC1383	V _{CBO}	30	V
	2SC1384	V _{CBO}	60	V
Collector Emitter Voltage	2SC1383	V _{CEO}	25	V
	2SC1384	V_{CEO}	50	V
Emitter Base Voltage		V _{EBO}	5	V
Peak Collector Current		I _{CP}	1.5	А
Collector Current		Ic	1	Α
Power Dissipation		P _{tot}	1	W
Junction Temperature		T _j	150	$^{\circ}\mathbb{C}$
Storage Temperature Range		Ts	-55 to +150	$^{\circ}\!\mathbb{C}$







ST 2SC1383 / 2SC1384

Characteristics at T_{amb}=25 °C

			Symbol	Min.	Тур.	Max.	Unit
DC Current Gain							
at I_C =500mA, V_{CE} =10V							
		Q	h_{FE}	85	-	170	-
		R	h_{FE}	120	-	240	-
		S	h_{FE}	170	-	340	-
at $I_C=1A$, $V_{CE}=5V$			h _{FE}	50	100	-	-
Collector Cutoff Current							
at V _{CB} =20V			I_{CBO}	-	-	0.1	μΑ
Collector Base Voltage							
at $I_C=10\mu A$	2SC1383		V_{CBO}	30	-	-	V
	2SC1384		V_{CBO}	60	-	-	V
Collector Emitter Voltage							
at I _C =2mA	2SC1383		V_{CEO}	25	-	-	V
I _C =2mA	2SC1384		V_{CEO}	50	-	-	V
Emitter Base Voltage							
at I _E =10μA			V_{EBO}	5	-	-	V
Collector Saturation Voltage							
at I_C =500mA, I_B =50mA		$V_{CE(sat)}$	-	0.2	0.4	V	
Base Saturation Voltage							
at I_C =500mA, I_B =50mA		$V_{BE\;(sat)}$	-	0.85	1.2	V	
Gain Bandwidth Product							
at V_{CB} =10V, I_E =-50mA, f =200MHz		f_T		200	-	MHz	
Output Capacitance							
at V _{CB} =10V,f=1MHz			C_OB	-	11	20	pF

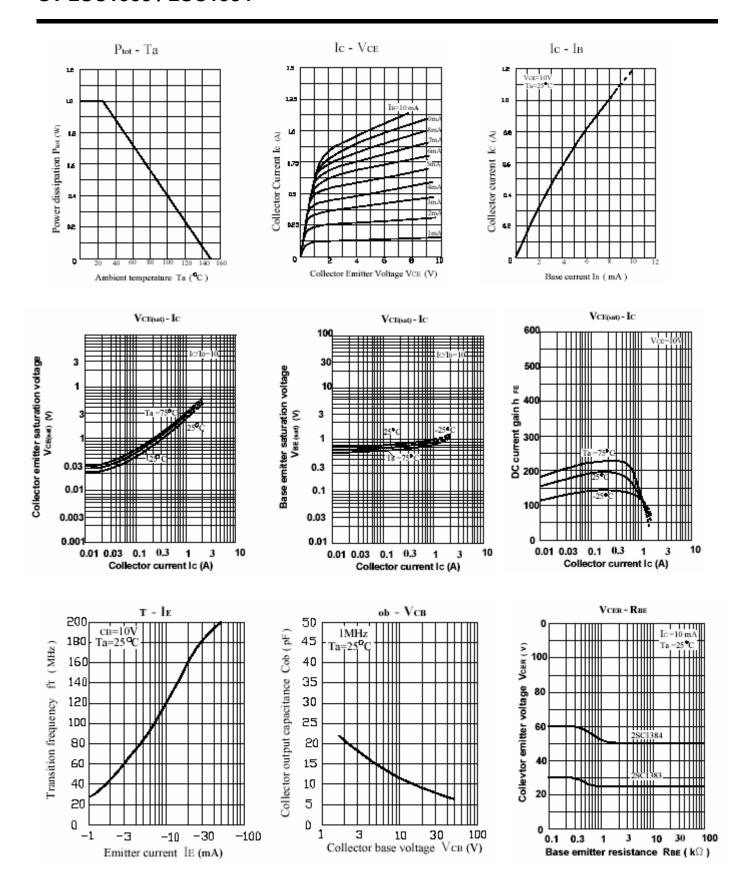








SEMTECH ELECTRONICS LTD.





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(Subsidiary of Sino-Tech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)







