PNP general purpose transistor

SSTA56 / MMSTA56

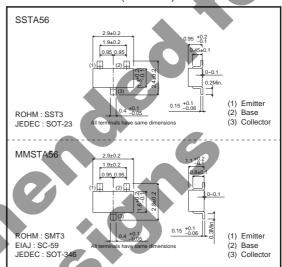
Features

- 1) BVCEO < -40V (Ic = $100\mu A$)
- 2) Complements the SSTA06 / MMSTA06.

● Package, marking and packaging specifications

Part No.	SSTA56	MMSTA56
Packaging type	SST3	SMT3
Marking	R2G	R2G
Code	T116	T146
Basic ordering unit (pieces)	3000	3000

●External dimensions (Unit : mm)



● Absolute maximum ratings (Ta=25°C)

Parameter	Symbol Limits		Unit		
Collector-base voltage	Vсво	-80	V		
Collector-emitter voltage	VCEO -80		V		
Emitter-base voltage	VEBO -4		V		
Collector current	lc _	-0.5	А		
Collector power dissipation	Pc	0.2	W		
	10	0.35	W *		
Junction temperature	Ţj	150	°C		
Storage temperature	Tstg	-55 to +150	°C		

^{*} Mounted on a 7×5×0.6mm CERAMIC SUBSTRATE

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Emitter-base breakdown voltage	ВУЕВО	-4	-	-	V	Ic = -100mA
Collector-emitter breakdown voltage	BVceo	-80	-	-	V	Ic = -1mA
Callantan autaff auranat	ICBO0.1		VcB= -80V			
Collector cutoff current	ICEO	-	-	-1	μΑ	Vce= -60V
Collector-emitter saturation voltage	VCE(sat)	-	-	0.25	V	Ic /IB= -100mA/-10mA
Base-emitter saturation voltage	VBE(on)	-	-	-1.2	V	VcE/IB= -1V/100mA
DC current transfer ratio	hee	100	-	-	-	Vc=-1V, Ic=-10mA
		100	-	-		VcE= -1V , Ic = -100mA
Transition frequency	fT	50	-	-	MHz	Vc=-1V , I== 100mA , f=100MHz

Electrical characteristic curves

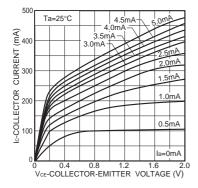


Fig.1 Grounded emitter output characteristics

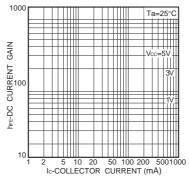


Fig.2 DC current gain vs. collector current (I)

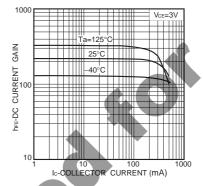


Fig.3 DC current gain vs. collector current (II)

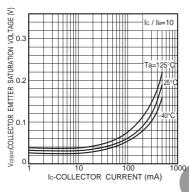


Fig.4 Collector emitter saturation voltage vs. collector current

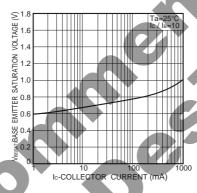


Fig.5 Base-emitter saturation voltage vs. collector current

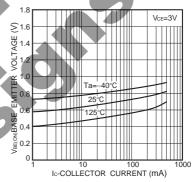


Fig.6 Grounded emitter propagation characteristics

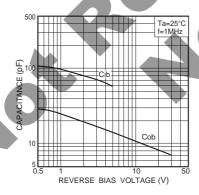


Fig.7 Input/output capecitance vs. voltage

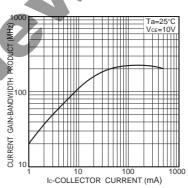


Fig.8 Gain bandwidth product vs. collector current

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