# PNP general purpose transistor **SSTA56 / MMSTA56**

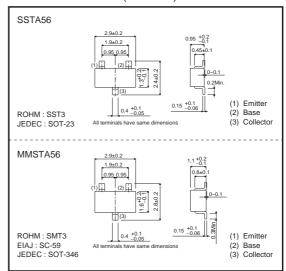
#### Features

- 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	Ic	-0.5	A		
Collector power dissipation	Pc	0.2	W		
	10	0.35	W *		
Junction temperature	Tj	150	°C		
Storage temperature	Tstg	-55 to +150	°C		

<sup>\*</sup> 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
Callantas autaff aussant	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	-	-	-	VcE= -1V , Ic = -10mA
		100	-	-		VcE= -1V , Ic = -100mA
Transition frequency	fT	50	-	-	MHz	Vc=-1V , I= 100mA , f=100MHz

#### Electrical characteristic curves

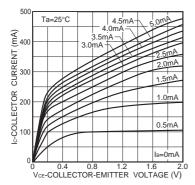


Fig.1 Grounded emitter output characteristics

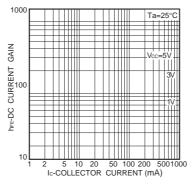


Fig.2 DC current gain vs. collector current ( I )

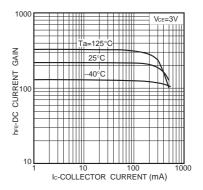


Fig.3 DC current gain vs. collector current ( II )

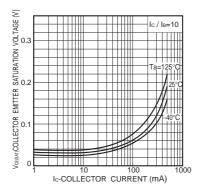


Fig.4 Collector emitter saturation voltage vs. collector current

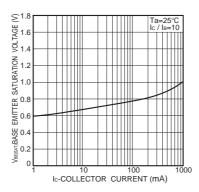


Fig.5 Base-emitter saturation voltage vs. collector current

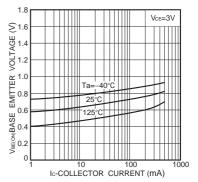


Fig.6 Grounded emitter propagation characteristics

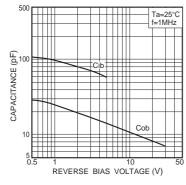


Fig.7 Input/output capecitance vs. voltage

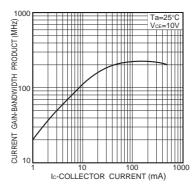


Fig.8 Gain bandwidth product vs. collector current

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