PNP Medium Power Transistor (Switching) SST4403 / MMST4403 / 2N4403

Features

1) BVceo = -40V (Min.) ; at Ic= -1mA

2) Complements the SST4401 / MMST4401 / PN4401

•Package, marking, and packaging specifications

Part No.	SST4403	MMST4403	2N4403
Packaging type	SST3	SMT3	TO-92
Marking	R2X	R2X	-
Code	T116	T146	T93
Basic ordering unit (pieces)	3000	3000	3000

Absolute maximum ratings (Ta=25°C)

Parameter		Symbol	Limits	Unit
Collector-base voltage		Vсво	-40	V
Collector-emitter voltage		VCEO	-40	V
Emitter-base voltage		Vebo	-6	V
Collector current		lc	-0.6	A
Collector power dissipation	SST4403 MMST4403		0.2	w
	SST4403 MMST4403	Pc	0.35	w
	2N4403		0.625	W
Junction temperature		Tj	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	
Collector-base breakdown voltage	ВУсво	-40	-	-	V	Ic=-100μA	
Collector-emitter breakdown voltage	BVCEO	-40	-	-	V	Ic=-1mA	
Emitter-base breakdown voltage	ВVево	-5	-	-	V	IE=-100μA	
Collector cutoff current	Ісво	-	-	-0.1	μΑ	V _{CB} =-35V	
Emitter cutoff current	Іево	-	-	-0.1	μΑ	VEB=-5V	
Collector-emitter saturation voltage		-	-	-0.4	v	Ic/I _B =-150mA/-15mA	
	VCE(sat)	-	-	-0.75		Ic/IB=-500mA/-50mA	
Base-emitter saturation voltage	VBE(sat)	-0.75	-	-0.95	v	Ic/I _B =-150mA/-15mA	
	V BE(sat)	-	-	-1.3		Ic/I _B =-500mA/-50mA	
DC current transfer ratio		30	-	-		Vce=-1V, Ic=-0.1mA	
	hfe	60	-	-		Vce=-1V, Ic=-1mA	
		100	-	-		Vce=-1V, Ic=-10mA	
		100	-	300		Vce=-1V, Ic=-150mA	
		20	-	-		Vce=-2V, Ic=-500mA	
Transition frequency	fr	200	-	-	MHz	Vce=-10V, Ie=20mA, f=100MHz	
Collector output capacitance	Cob	-	-	8.5	pF	Vсв=-10V, f=100kHz	
Emitter input capacitance	Cib	-	-	30	pF	VEB=-0.5V, f=100kHz	
Delay time	td	-	-	15	ns	Vcc=-30V, VEB(OFF)=-2V, Ic=-150mA, IB1=-15mA	
Rise time	tr	-	-	20	ns	Vcc=-30V, VEB(OFF)=-2V, Ic=-150mA, IB1=-15mA	
Storage time	tstg	-	-	225	ns	Vcc=-30V, Ic=-150mA, IB1=-IB2=-15mA	
Fall time	tf	-	-	30	ns	Vcc=-30V, Ic=-150mA, IB1=-IB2=-15mA	

•External dimensions (Unit : mm)



SST4403 / MMST4403 / 2N4403

Transistors



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