PNP Medium Power Transistor (Switching) UMT4403 / SST4403 / MMST4403 / 2N4403

AF--4....

- 1) BVcEo<-40V (Ic=1mA)
- 2) Complements the UMT4401 / SST4401 / MMST4401 / 2N4401.

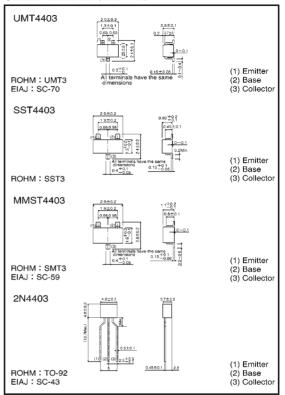
Package, marking, and packaging specifications

Pat No.	UMT4403	SST4403	MMST4403	2N4403
Pakaging type	UMT3	SST3	SMT3	TO-92
Marking	R2T	R2T	R2T	_
Code	T106	T116	T146	T93
Basic ordering unit (pieces)	3000	3000	3000	3000

●Absolute maximum ratings (Ta=25℃)

Paran	neter	Symbol	Limits	Unit
Collector-base vo	Itage	Vсво	-40	V
Collector-emitter	voltage	Vceo	-40	V
Emitter-base volta	age	VEBO	-6	٧
Collector current		lc	-0.6	Α
Collector power dissipation	UMT4403 SST4403 MMST4403	Pc	0.2	w
	2N4403		0.625	
Junction tempera	ture	Tj	150	℃
Storage temperat	ure	Tstg	-55~+150	°C

●External dimensions (Units: mm)



●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions	
Collector-base breakdown voltage	ВУсво	-40	_	_	V	Ic=-100 μA	
Collector-emitter breakdown voltage	BVceo	-40	_	_	V	Ic=-1mA	
Emitter-base breakdown voltage	BVEBO	-5	_	_	V	IE=-100 μ A	
Collector cutoff current	Ісво	_	_	-0.1	μA	V _{CB} =-35V	
Emitter cutoff current	lebo	_	_	-0.1	μA	V _{EB} =-5V	
Collector-emitter saturation voltage	VCE(sat)	_	_	-0.4	V	Ic/Is=-150mA/-15mA	
		_	_	-0.75		Ic/Is=-500mA/-50mA	
Base-emitter saturation voltage	VBE(sat)	-0.75	_	-0.95	٧	Ic/I _B =-150mA/-15mA	
	V BE(sat)	_	_	-1.3		Ic/I _B =-500mA/-50mA	
DC current transfer ratio	hre	30	_	_	_	VcE=-1V, Ic=-0.1mA	
		60	_	_		VcE=-1V, Ic=-1mA	
		100	_	_		VcE=-1V, Ic=-10mA	
		100	_	300		VoE=-1V, Ic=-150mA	
		20	_	_		VcE=-2V, Ic=-500mA	
Gain bandwidth product	fτ	200	_	_	MHz	VcE=-10V , IE=20mA, f=100MHz	
Collector output capacitance	Cob	_	_	8.5	рF	VcB=-10V, f=100kHz	
Emitter input capacitance	Cib	_	_	30	рF	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 , I _{B1} =-I _{B2} =-15mA	

●Electrical characteristic curves

The electrical characteristic curves for these products are the same as those of UMT2907A, SST2907A, MMST2907A and PN2907A. Refer to pages 598 to 601.



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