# UMX21N

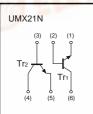
Transistors

# High transition frequency (dual transistors)

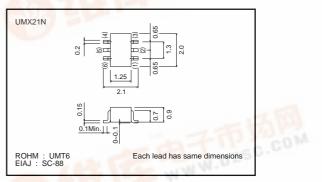
#### Features

- 1) Two 2SC4713K chips in a UMT package.
- 2) Very low output-on resistance. (Ron)
- 3) Low capacitance.

#### •Equivalent circuits



## •External dimensions (Unit : mm)



#### Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit	
Collector-base voltage	Vсво	12	V	
Collector-emitter voltage	VCEO	6	V V	
Emitter-base voltage	VEBO	3		
Collector current	lc	50	mA	
Collector power dissipation	Pc	150	mW *	
Junction temperature	Tj	150	°C	
Storage temperature	Tstg	-55 to +150	°C	

\* 120mW per element must not be exceeded.

#### Package, marking, and packaging specifications

-	-
Туре	UMX21N
Package	UMT6
Marking	X21
Code	TR
Basic ordering unit (pieces)	3000

#### •Electrical characteristics (Ta=25°C)

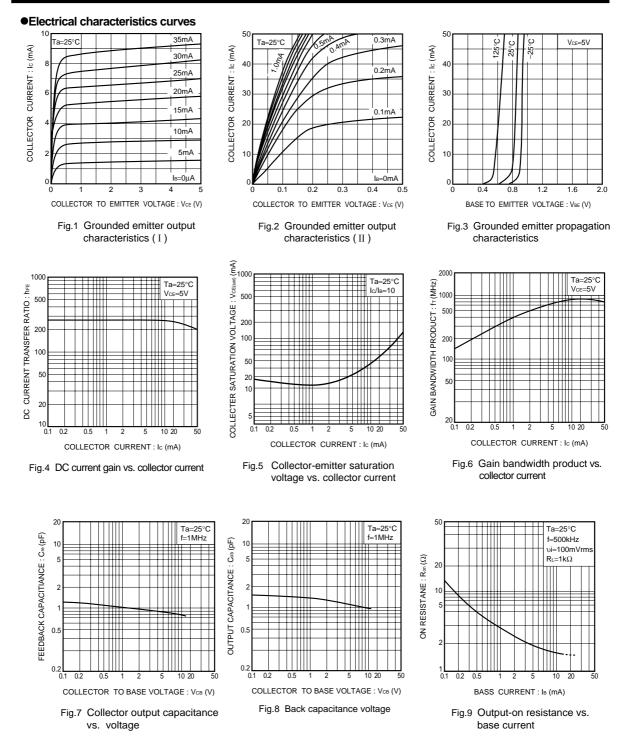
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-base breakdown voltage	ВУсво	12	-	-	V	Ic=10μA
Collector-emitter breakdown voltage	BVCEO	6		-	V	Ic=1mA
Emitter-base breakdown voltage	BVEBO	3	0.91	-	V	Ιε=10μΑ
Collector cutoff current	Ісво	1.5		0.5	μΑ	Vcb=10V
Emitter cutoff current	Іево	-	-	0.5	μΑ	VEB=2V
Collector-emitter saturation voltage	VCE(sat)	-	-	0.3	V	Ic/IB=10mA/1mA
DC current transfer ratio	hfe	270	-	560	-	Vce/Ic=5V/10mA
Transition frequency	fτ	300	800	-	MHz	Vce=5V, Ie=-10mA, f=200MHz
Output capacitance	Cob	-	1	1.7	pF	VCB=10V, IE=0A, f=1MHz
Output-on resistance	Ron	-	2	-	Ω	I <sub>B</sub> =3mA, V⊨100mVrms, f=500kHz





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### Appendix

#### Notes

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