EMG6 / UMG6N / FMG6A

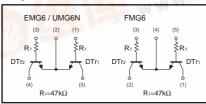
Transistors

General purpose (dual digital transistors) EMG6 / UMG6N / FMG6A

Features

1) Two DTC114T chips in a EMT or UMT or SMT package.

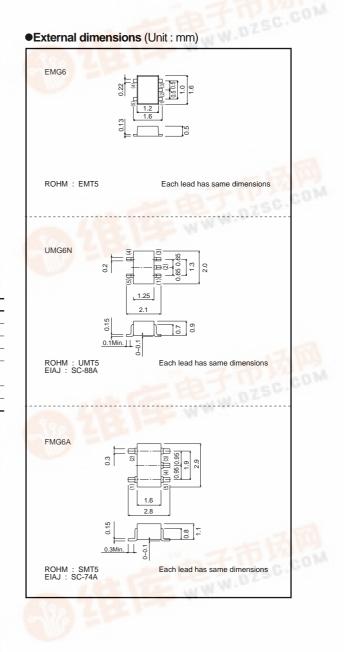
Equivalent circuit



			the second se		
Parameter		Symbol	Limits	Unit	
Collector-base voltage		Vсво	50	V	
Collector-emitter voltage		Vceo	50	V	
Emitter-base voltage		Vebo	5	V	
Collector current		lc	100	mA	
Collector power dissipation	EMG6 / UMG6N	Pc	150(TOTAL)	mW	
	FMG6A	FC	300(TOTAL)		
Junction temperature		Tj	150	°C	
Storage temperature		Tstg	-55 to +150	°C	

Package, marking, and packaging specifications

Туре	EMG6	UMG6N	FMG6A
Package	EMT5	UMT5	SMT5
Marking	G6	G6	G6
Code	T2R	TR	T148
Basic ordering unit (pieces)	8000	3000	3000





EMG6 / UMG6N / FMG6A

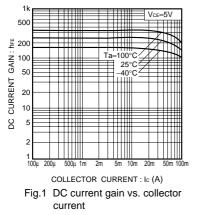
Transistors

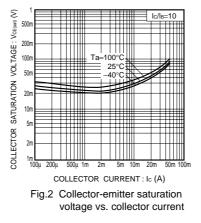
●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-base breakdown voltage	ВУсво	50	-	-	V	Ic=50μA
Collector-emitter breakdown voltage	BVCEO	50	-	-	V	Ic=1mA
Emitter-base breakdown voltage	ВУево	5	-	-	V	Ιε=50μΑ
Collector cutoff current	Ісво	-	-	0.5	μA	Vcb=50V
Emitter cutoff current	Іево	-	-	0.5	μA	VEB=4V
Collector-emitter saturation voltage	VCE(sat)	-	-	0.3	V	Ic/IB=10mA/1mA
DC current transfer ratio	hfe	100	250	600	-	Vce/Ic=5V/1mA
Transition frequency	f⊤	-	250	-	MHz	Vce=10V, Ie=-5mA, f=100MHz *
Input resistance	R1	32.9	47	61.1	kΩ	-

*Transition frequency of the device.







Appendix

Notes

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