Transistors

Emitter common (dual transistors)

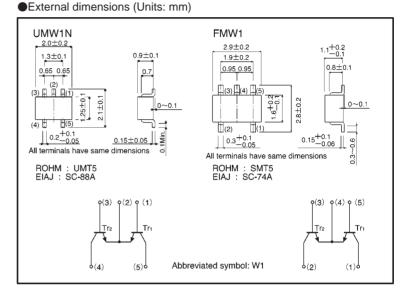
Features

- Two 2SC2412K chips in a UMT or SMT package.
- Mounting cost and area can be cut in half.

Structure

Epitaxial planar type NPN silicon transistor

The following characteristics apply to both Tr_1 and Tr_2 .



•Absolute maximum ratings (Ta = 25° C)

Parameter		Symbol	Limits	Unit	
Collector-base voltage		Vсво	60	V	
Collector-emitter voltage		VCEO	50	V	
Emitter-base voltage		Vebo	7	V	
Collector current		lc	150	mA	
Power dissipation	UMW1N	Pc	150(TOTAL)	*1	
	FMW1	FC	300(TOTAL)	mW *2	
Junction temperature		Tj	150	Ĉ	
Storage temperature		Tstg	-55~+150	Ĵ	

*1 120mW per element must not be exceeded.

*2 200mW per element must not be exceeded.

(96-424-C22)



Transistors

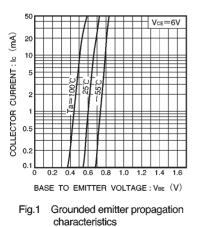
•Electrical characteristics (Ta = 25° C)

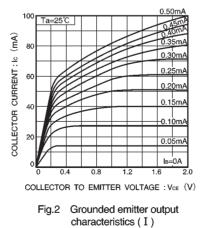
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-base breakdown voltage	ВУсво	60	—	_	V	Ic=50 μ A
Collector-emitter breakdown voltage	BVCEO	50	—	_	V	Ic=1mA
Emitter-base breakdown voltage	BVEBO	7	_	_	V	IE=50 μ A
Collector cutoff current	Ісво	—	_	0.1	μA	V _{CB} =60V
Emitter cutoff current	Іево	_	—	0.1	μA	VEB=7V
Collector-emitter saturation voltage	VCE(sat)	_	_	0.4	V	Ic/IB=50mA/5mA
DC current transfer ratio	hfe	120	—	560	_	Vce=6V, Ic=1mA
Transition frequency	fr	_	180	_	MHz	Vce=12V, le=2mA, f=100MHz
Output capacitance	Cob	_	2	3.5	pF	V _{CB} =12V, I _E =0A, f=1MHz

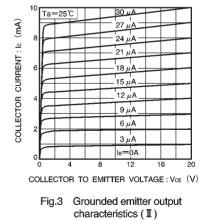
Packaging specifications

	Packaging type	Taping	
	Code	TR	T148
Part No.	Basic ordering unit (pieces)	3000	3000
UMW1N		0	_
FMW1		—	0

•Electrical characteristic curves







ROHM

