

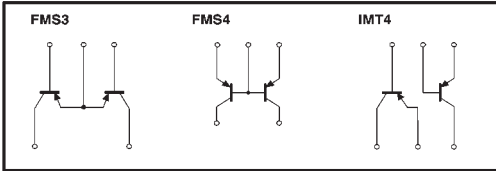
General purpose (dual transistors)

FMS3 / FMS4 / IMT4

●Features

- Two 2SA1514K chips in an SMT package.
- High breakdown voltage.

●Circuit diagrams



●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Collector-base voltage	V _{CB0}	-120	V
Collector-emitter voltage	V _{CE0}	-120	V
Emitter-base voltage	V _{EB0}	-5	V
Collector current	I _C	-50	mA
Power dissipation	P _C	300 (TOTAL)	mW *
Junction temperature	T _J	150	°C
Storage temperature	T _{stg}	-55~+150	°C

* 200mW per element must not be exceeded.

●Package, marking, and packaging specifications

Part No.	FMS3	FMS4	IMT4
Package	SMT5	SMT5	SMT6
Marking	S3	S4	T4
Code	T148	T148	T108
Basic ordering unit (pieces)	3000	3000	3000

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Collector-base breakdown voltage	BV _{CB0}	-120	—	—	V	I _C = -50 μA
Collector-emitter breakdown voltage	BV _{CE0}	-120	—	—	V	I _C = -1mA
Emitter-base breakdown voltage	BV _{EB0}	-5	—	—	V	I _E = -50 μA
Collector cutoff current	I _{CB0}	—	—	-0.5	μA	V _{CB} = -100V
Emitter cutoff current	I _{EB0}	—	—	-0.5	μA	V _{EB} = -4V
DC current transfer ratio	h _{FE}	180	—	820	—	V _{CE} = -6V, I _C = 2mA
Transition frequency	f _T	—	140	—	MHz	V _{CE} = -12V, I _E = 2mA, f = 100MHz*
Collector-emitter saturation voltage	V _{CE(sat)}	—	—	-0.5	V	I _C /I _B = -10mA/-1mA

*Transition frequency of the device.

(94S-389-A41)

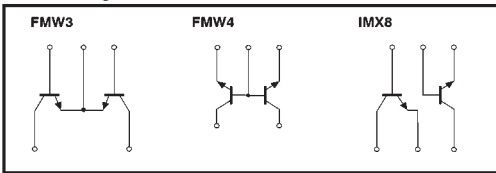
General purpose (dual transistors)

FMW3 / FMW4 / IMX8

●Features

- Two 2SC3906K chips in an SMT package.
- High breakdown voltage.

●Circuit diagrams



●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Collector-base voltage	V _{CB0}	120	V
Collector-emitter voltage	V _{CE0}	120	V
Emitter-base voltage	V _{EB0}	5	V
Collector current	I _C	50	mA
Power dissipation	P _C	300 (TOTAL)	mW *
Junction temperature	T _J	150	°C
Storage temperature	T _{stg}	-55~+150	°C

* 200mW per element must not be exceeded.

●Package, marking, and packaging specifications

Part No.	FMW3	FMW4	IMX8
Package	SMT5	SMT5	SMT6
Marking	S3	S4	T4
Code	T148	T148	T108
Basic ordering unit (pieces)	3000	3000	3000

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Collector-base breakdown voltage	BV _{CB0}	120	—	—	V	I _C = 50 μA
Collector-emitter breakdown voltage	BV _{CE0}	120	—	—	V	I _C = 1mA
Emitter-base breakdown voltage	BV _{EB0}	5	—	—	V	I _E = 50 μA
Collector cutoff current	I _{CB0}	—	—	0.5	μA	V _{CB} = 100V
Emitter cutoff current	I _{EB0}	—	—	0.5	μA	V _{EB} = 4V
DC current transfer ratio	h _{FE}	180	—	820	—	V _{CE} = 6V, I _C = 2mA
Transition frequency	f _T	—	140	—	MHz	V _{CE} = -12V, I _E = 2mA, f = 100MHz*
Collector-emitter saturation voltage	V _{CE(sat)}	—	—	0.5	V	I _C /I _B = 10mA/1mA

*Transition frequency of the device

(94S-398-C41)