

General purpose (dual transistors)

FMS3 / FMS4 / IMT4

●Features

- 1) Two 2SA1514K chips in an AMT package.
- 2) High breakdown voltage.

●Absolute maximum ratings (Ta=25°C)

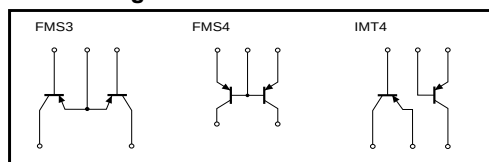
Parameter	Symbol	Limits	Unit
Collector-base voltage	V_{CB0}	-120	V
Collector-emitter voltage	V_{CE0}	-120	V
Emitter-base voltage	V_{EB0}	-5	V
Collector current	I_C	-50	mA
Power dissipation	P_C	300 (TOTAL)	mW *
Junction temperature	T_J	150	°C
Storage temperature	T_{stg}	-55~+150	°C

*200mW per element must not be exceeded.

●Package, marking, and Packaging specifications

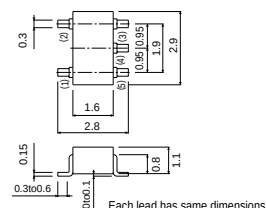
Part No.	FMS3	FMS4	IMT4
Package	SMT5	SMT5	SMT6
Marking	S3	S4	T4
Code	T148	T148	T108
Basic ordering unit (pieces)	3000	3000	3000

●Circuit diagram



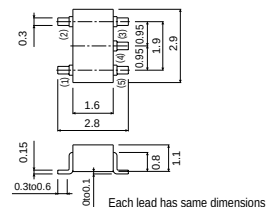
●External dimensions (Units : mm)

FMS3



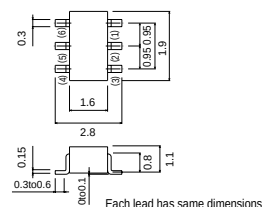
ROHM : SMT5
EIAJ : SC-74A

FMS4



ROHM : SMT5
EIAJ : SC-74A

IMT4



ROHM : SMT6
EIAJ : SC-74

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Collector-base breakdown voltage	BV_{CB0}	-120	-	-	V	$I_C = -50\mu A$
Collector-emitter breakdown voltage	BV_{CE0}	-120	-	-	V	$I_C = -1mA$
Emitter-base breakdown voltage	BV_{EB0}	-5	-	-	V	$I_E = -50\mu A$
Collector cutoff current	I_{CBO}	-	-	-0.5	μA	$V_{CB} = -100V$
Emitter cutoff current	I_{EBO}	-	-	-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	$I_C/I_E = -10mA/-1mA$

*Transition frequency of the device.