



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Transistors

IMD14 General purpose (dual digital transistors)

IMD14

●Features

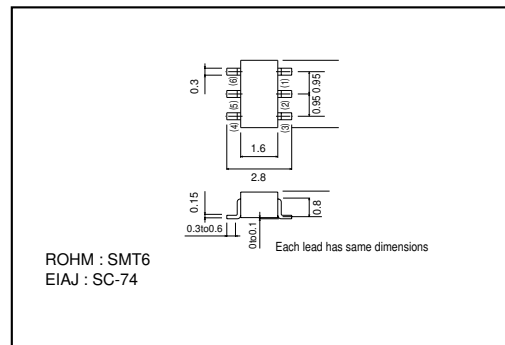
- 1) Two 500 mA digital transistor chips in a SMT package.
- 2) The drive transistors are independent, eliminating interference.

●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Supply voltage	V _{CC}	50	V
Input voltage	V _{IN}	5 -5	V
Output current	I _C	500	mA
Power dissipation	P _d	300 (TOTAL)	mW *
Junction temperature	T _J	150	°C
Storage temperature	T _{stg}	-55~+150	°C

*200mW per element must not be exceeded. PNP type negative symbols have been omitted.

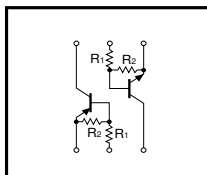
●External dimensions (Units : mm)



●Package, marking, and packaging specifications

Part No.	IMD14
Package	SMT6
Marking	D14
Code	T108
Basic ordering unit (pieces)	3000

●Equivalent circuit



●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Input voltage	V _{I (off)}	-	-	0.3	V	V _{CC} =5V , I _C =100μA V _O =0.3V , I _O =50mA
	V _{I (on)}	1.1	-	-		
Output voltage	V _{O (on)}	-	-	0.3	V	I _C /I _E =100mA/5mA
Input current	I _I	-	-	17	mA	V _I =3V
Output current	I _{O (off)}	-	-	0.5	μA	V _{CC} =50V , V _I =0V
DC current gain	G _I *1	82	-	-	-	I _C =100mA , V _O =5V *1
Transition frequency	f _T *2	-	250	-	MHz	V _{CE} =10V , I _E =-50mA , f=100MHz *2
Input resistance	R _I	154	220	286	Ω	-
Resistance ratio	R ₂ /R ₁	36.3	45.5	54.6	-	-

*1 Measured using pulse current *2 Transition frequency of the device
PNP type negative symbols have been omitted.