

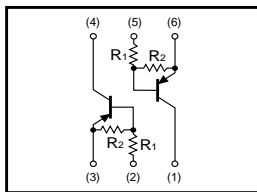
General purpose (dual digital transistors)

IMB16

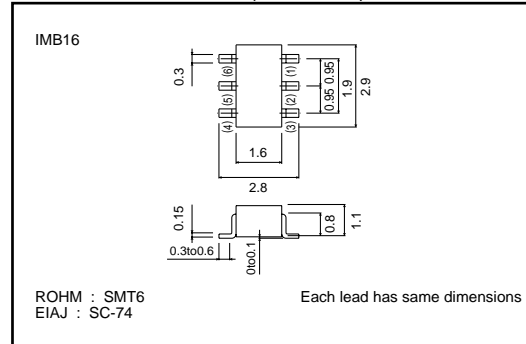
●Features

- 1) Two DTB143X chips in a SMT package.

●Equivalent circuit



●External dimensions (Units : mm)



●Package, marking, and packaging specifications

Type	IMB16
Package	SMT6
Marking	B16
Code	T110
Basic ordering unit (pieces)	3000

●Absolute maximum ratings (Ta = 25°C)

Parameter	Symbol	Limits	Unit
Supply voltage	V _{CC}	-50	V
Input voltage	V _{IN}	-30	V
		7	
Output current	I _O	-500	mA
Power dissipation	P _d	300(TOTAL)	mW *
Junction temperature	T _J	150	°C
Storage temperature	T _{stg}	-50~+150	°C

*200mW per element must not be exceeded.

●Electrical characteristics (Ta = 25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Input voltage	V _{I (off)}	-	-	-0.3	V	V _{CC} =-5V, I _O =-100μA
	V _{I (on)}	-2.5	-	-		V _O =-0.3V, I _O =-20mA
Output voltage	V _{O (on)}	-	-	-0.3	V	I _O /I _I =-50mA/-2.5mA
Input current	I _I	-	-	-1.8	mA	V _I =-5V
Output current	I _{O (off)}	-	-	-0.5	μA	V _{CC} =-50V, V _I =0V
DC current gain	G _I	56	-	-	-	I _O =-50mA, V _O =-5V *1
Transition frequency	f _T	-	200	-	MHz	V _{CE} =-10V, I _E =50mA, f=100MHz *2
Input resistance	R _I	3.29	4.7	6.11	kΩ	-
Resistance ratio	R ₂ /R ₁	1.7	2.1	2.6	-	-

*1 Measured using pulse current.
*2 Transition frequency of the device.