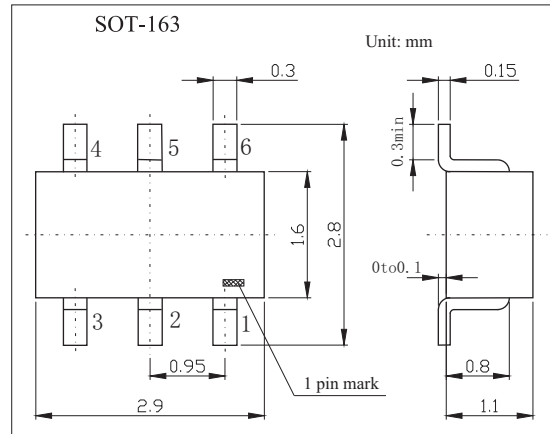
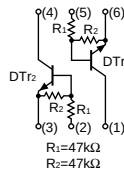


IMH2A

■ Features

- Dual NPN digital transistor



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Supply voltage	V _{CC}	50	V
Input voltage	V _{IN}	40 -10	V
Output current	I _O	30	mA
Collector current	I _{C(MAX)}	100	mA
Power dissipation(Total)	P _d	300	mW
Operating and Storage and Temperature Range	T _J , T _{STG}	-55 to +150	°C

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Input voltage	V _{I (off)}	V _{CC} =5V, I _O =100μA			0.5	V
	V _{I (on)}	V _O =0.3V, I _O =2mA	3			V
Output voltage	V _{O (on)}	I _O =10mA, I _I =0.5mA			0.3	V
Input current	I _I	V _I =5V			0.18	mA
Output current	I _{O (off)}	V _{CC} =50V, V _I =0V			0.5	μA
DC current gain	G _I	V _O =5V, I _O =5mA	68			
Transition frequency	f _T	V _{CE} =10V, I _E = -5mA, f=100MHz		250		MHz
Input resistance	R ₁		32.9	47	61.1	kΩ
Resistance ratio	R ₂ / R ₁		0.8	1	1.2	

■ Marking

Marking	H2
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IMH2A

■ Typical Characteristics

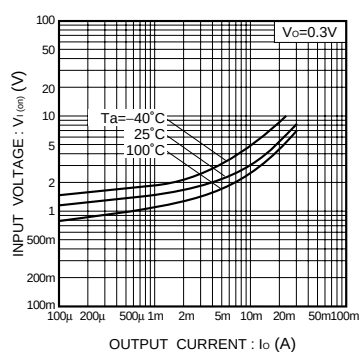


Fig.1 Input voltage vs. output current (on-characteristics)

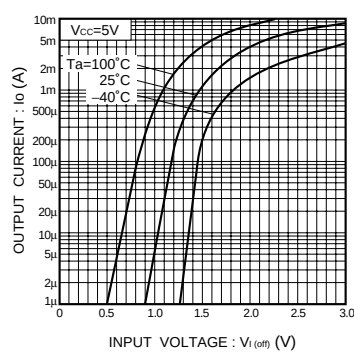


Fig.2 Output current vs. input voltage (off-characteristics)

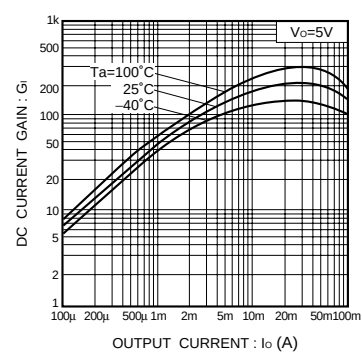


Fig.3 DC current gain vs. output current

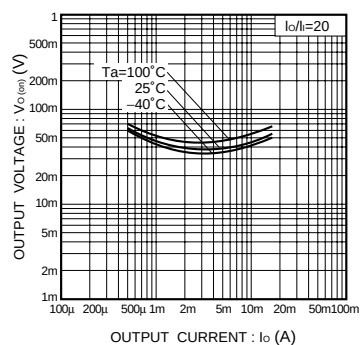


Fig.4 Output voltage vs. output current