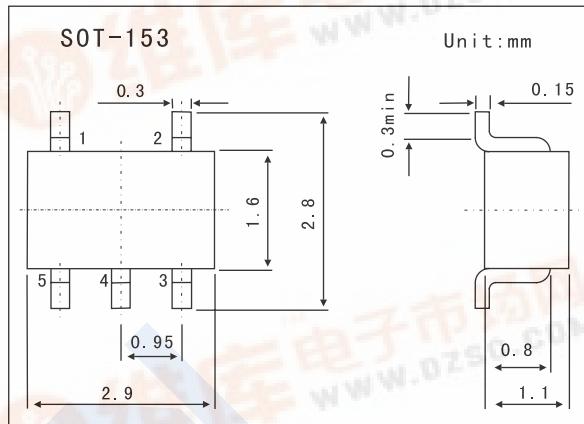


## SMD Type

## Transistors

## Complex Digital Transistors

## FMA1A



## ■ Features

- Mounting Cost and Area Can Be Cut In Half.
- Emitter-common Type.
- PNP Epitaxial Planar Silicon Transistor.

## ■ Absolute Maximum Ratings Ta = 25°C

&lt; For Tr1 and Tr2 in common &gt;

Parameter	Symbol	Rating	Unit
Supply Voltage	Vcc	-50	V
Input Voltage	Vin	-40 to +10	V
Output Current	Io	-30	mA
Collector Current	Ic(Max)	-100	
Power Dissipation	Pd *	300	mW
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

\* 200mW per element must not be exceeded.

## ■ Electrical Characteristics Ta = 25°C

&lt; For Tr1 and Tr2 in common &gt;

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Input Voltage	Vi(off)	Vcc = -5V , Io = -100 μ A			-0.5	V
	Vi(on)	Vo = -0.2V , Io = -5mA	-3			
Output Voltage	Vo(on)	Io/Ii = -10mA/-0.5mA		-0.1	-0.3	V
Input Current	Ii	Vi = -5V			-0.36	mA
Output Current	Io(off)	Vcc = -50V , Vi = 0V			-0.5	μ A
DC Current Gain	Gi	Vo = -5V , Io = -5mA	56			
Input Resistance	R1		15.4	22	28.6	kΩ
Resistance Ratio	R2/R1		0.8	1	1.2	
Transistion Frequency	fr *	Vce = -10V , Ie = 5mA , f = 100MHz		250		MHz

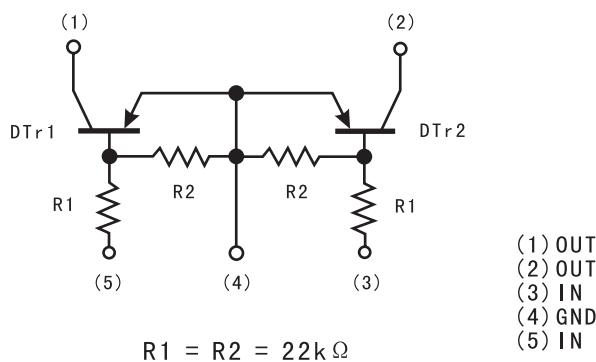
\* Characteristics of built-in transistor

## ■ Marking

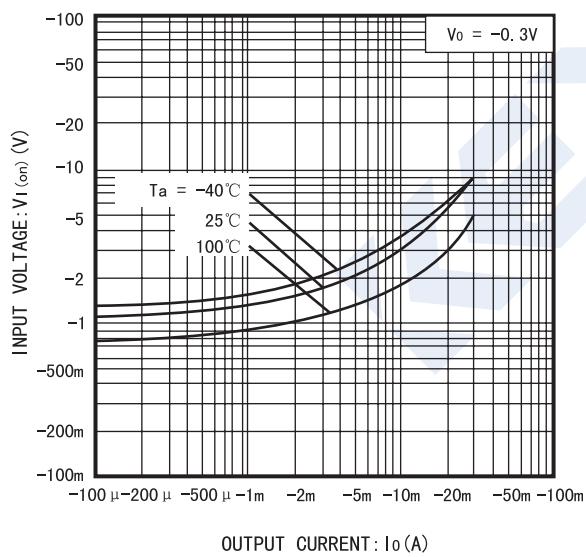
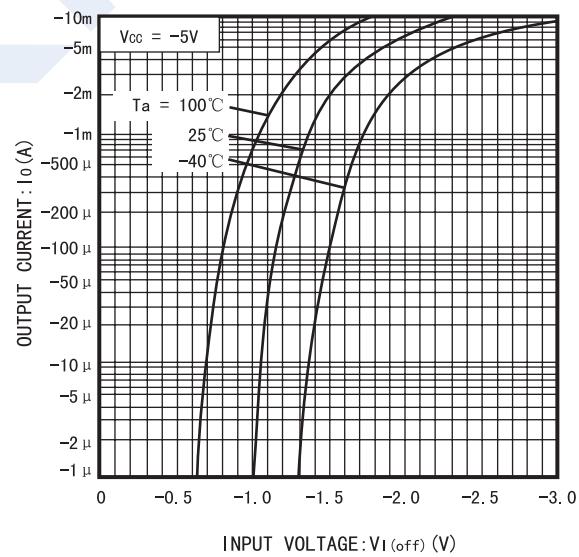
Marking	A1
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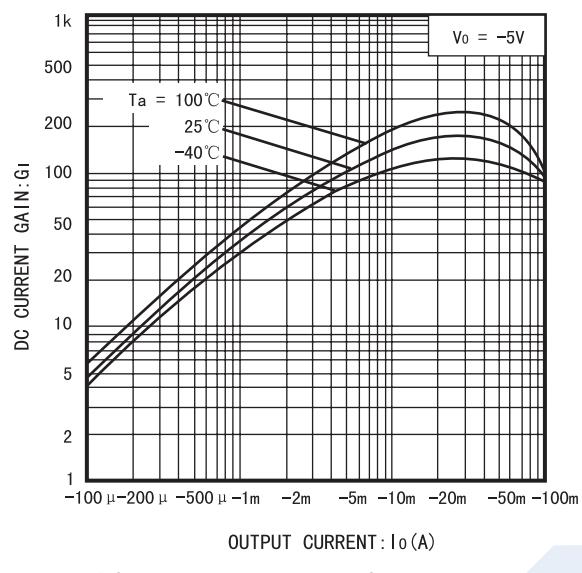
**FMA1A**

## ■ Equivalent Circuit

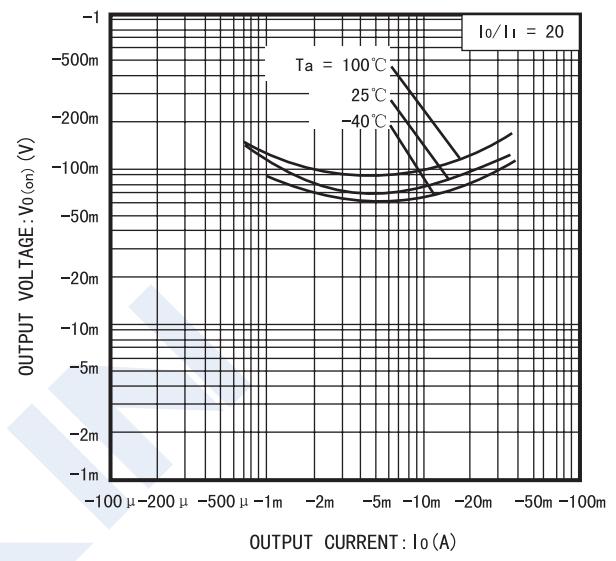


## ■ Electrical Characteristics Curves

Input voltage vs. output current  
(ON characteristics)Output current vs. input voltage  
(OFF characteristics)

**FMA1A**

DC current gain vs. Output current



Output voltage vs. Output current