

Transistors

● Absolute maximum ratings (Ta = 25°C)

Parameter		Symbol	Limits	Unit
Supply voltage		V _{CC}	50	V
Input current		V _{IN}	40	V
			-10	
Output current		I _O	30	mA
		I _{C (Max.)}	100	
Power dissipation	EMC2,UMC2N	P _d	150 (TOTAL)	mW
	FMC2A		300 (TOTAL)	
Junction temperature		T _J	150	°C
Storage temperature		T _{stg}	-55~+150	°C

*1 120mW per element must not be exceeded.

*2 200mW per element must not be exceeded.

● Electrical characteristics (Ta = 25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Input voltage	V _{I (off)}	-	-	0.5	V	V _{CC} =5V, I _O =100μA
	V _{I (on)}	3	-	-		V _O =0.2V, I _O =5mA
Output voltage	V _{O (on)}	-	0.1	0.3	V	I _O /I _I =10mA/0.5mA
Input current	I _I	-	-	0.36	mA	V _I =5V
Output current	I _{O (off)}	-	-	0.5	μA	V _{CC} =50V, V _I =0V
DC current gain	G _I	56	-	-	-	V _O =5V, I _O =5mA
Transition frequency	f _T	-	250	-	MHz	V _{CE} =10mA, I _E =-5mA, f=100MHz
Input resistance	R _I	15.4	22	28.6	kΩ	-
Resistance ratio	R ₂ /R ₁	0.8	1	1.2	-	-

* Transition frequency of the device

● Electrical characteristic curves

DT_{Tr1}

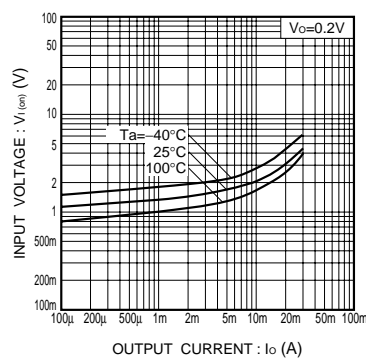


Fig.1 Input voltage vs. output current (ON characteristics)

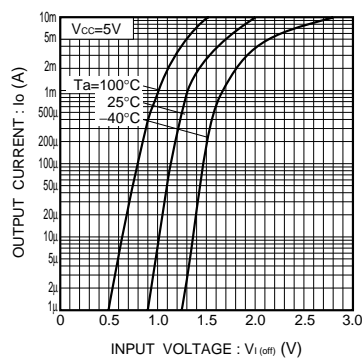


Fig.2 Output current vs. input voltage (OFF characteristics)

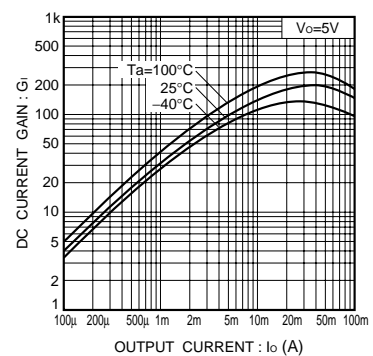


Fig.3 DC current gain vs. output current

Transistors

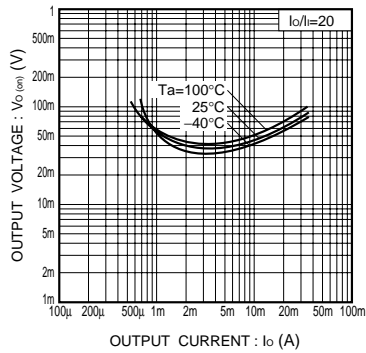


Fig.4 Output voltage vs. output current

DT_{r2}

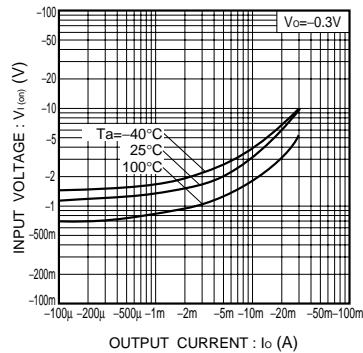


Fig.5 Input voltage vs. output current (ON characteristics)

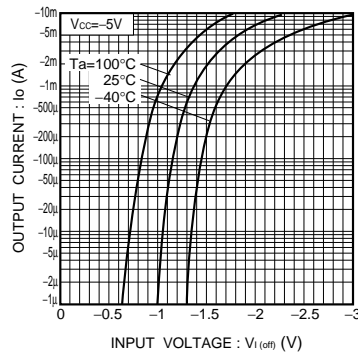


Fig.6 Output current vs. input voltage (OFF characteristics)

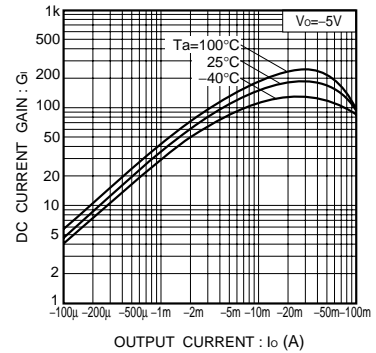


Fig.7 DC current gain vs. output current

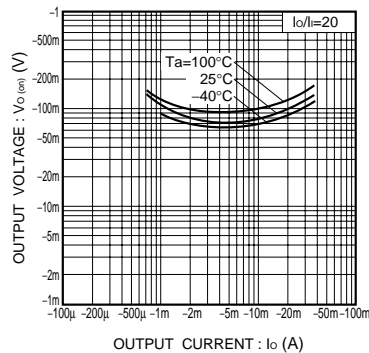


Fig.8 Output voltage vs. output current

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Bipolar Transistors - Pre-Biased](#) category:

Click to view products by [ROHM](#) manufacturer:

Other Similar products are found below :

[RN1607\(TE85L,F\)](#) [DTA124GKAT146](#) [DTA144WETL](#) [DTA144WKAT146](#) [DTC113EET1G](#) [DTC115TETL](#) [DTC115TKAT146](#)
[DTC124TETL](#) [DTC144ECA-TP](#) [DTC144VUAT106](#) [MUN5241T1G](#) [BCR158WH6327XTSA1](#) [NSBA114TDP6T5G](#) [NSBA143ZF3T5G](#)
[NSBC114YF3T5G](#) [NSBC123TF3T5G](#) [SMUN5235T1G](#) [SMUN5330DW1T1G](#) [SSVMUN5312DW1T2G](#) [RN1303\(TE85L,F\)](#)
[RN4605\(TE85L,F\)](#) [TTEPROTOTYPE79](#) [DDTC114EUAQ-7-F](#) [EMH15T2R](#) [SMUN2214T3G](#) [SMUN5335DW1T1G](#) [NSBC114TF3T5G](#)
[NSBC143ZPDP6T5G](#) [NSVMUN5113DW1T3G](#) [SMUN5230DW1T1G](#) [SMUN5133T1G](#) [SMUN2214T1G](#) [DTC114EUA-TP](#)
[NSBA144EF3T5G](#) [NSVDTA114EET1G](#) [2SC2223-T1B-A](#) [2SC3912-TB-E](#) [SMUN5237DW1T1G](#) [SMUN5213DW1T1G](#)
[SMUN5114DW1T1G](#) [SMUN2111T1G](#) [NSVDTC144EM3T5G](#) [DTC124ECA-TP](#) [DTC123TM3T5G](#) [DTA114ECA-TP](#) [DTA113EM3T5G](#)
[DCX115EK-7-F](#) [DTC113EM3T5G](#) [NSVMUN5135DW1T1G](#) [NSVMUN2237T1G](#)