

Dual PNP Digital Transistor

- Pb-Free Package is Available.

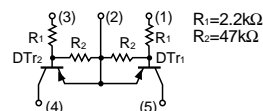
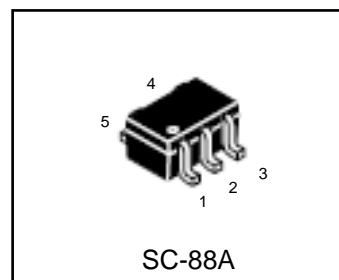
Ordering Information

Device	Marking	Shipping
LUMA5NT1G	A5	3000/Tape&Reel
LUMA5NT3G	A5	10000/Tape&Reel

ABSOLUTE MAXIMUM RATINGS ($T_A = 25^\circ\text{C}$)

Rating	Symbol	Value	Unit
Supply voltage	V_{CC}	-50	Vdc
Input voltage	V_{IN}	-12 to +5	Vdc
Output current	I_O	-100	mA _{dc}
Power dissipation	P_D	150	mW
Storage Temperature	T_{slg}	-55 to +150	$^\circ\text{C}$

LUMA5NT1G



●Electrical characteristics ($T_a=25^\circ\text{C}$)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Input voltage	$V_{I(off)}$	-	-	-0.5	V	$V_{CC}=-5V, I_O=-100\mu A$
	$V_{I(on)}$	-1.1	-	-		$V_O=-0.3V, I_O=-5mA$
Output voltage	$V_{O(on)}$	-	-0.1	-0.3	V	$I_O/I_I=-5mA/-0.25mA$
Input current	I_I	-	-	-3.6	mA	$V_I=-5V$
Output current	$I_{O(off)}$	-	-	-0.5	μA	$V_{CC}=-50V, V_I=0V$
DC current gain	G_I	80	-	-	-	$V_O=-5V, I_O=-10mA$
Input resistance	R_1	1.54	2.2	2.86	k Ω	-
Resistance ratio	R_2/R_1	17	21	26	-	-
Transition frequency	f_T *	-	250	-	MHz	$V_{CE}=-10V, I_E=5mA, f=100MHz$

* Characteristics of built-in transistor

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●Electrical characteristic curves

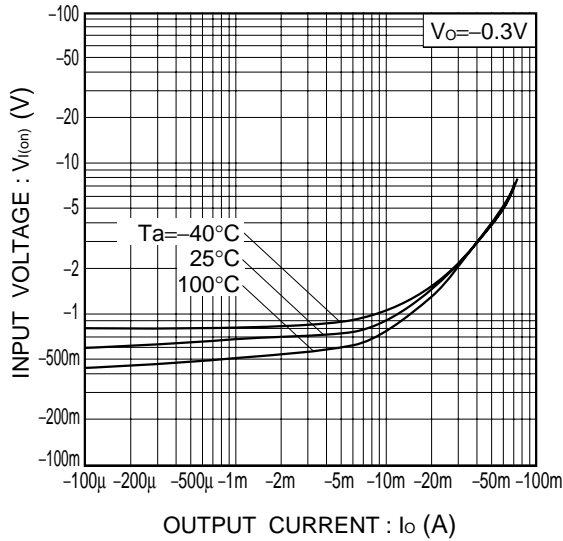


Fig.1 Input voltage vs. output current (ON characteristics)

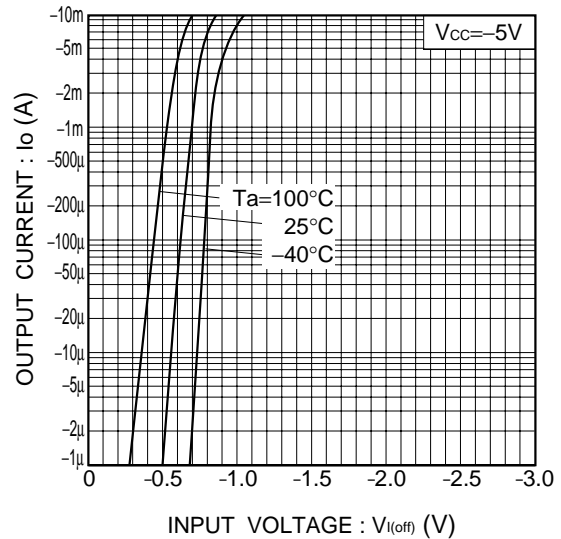


Fig.2 Output current vs. input voltage (OFF characteristics)

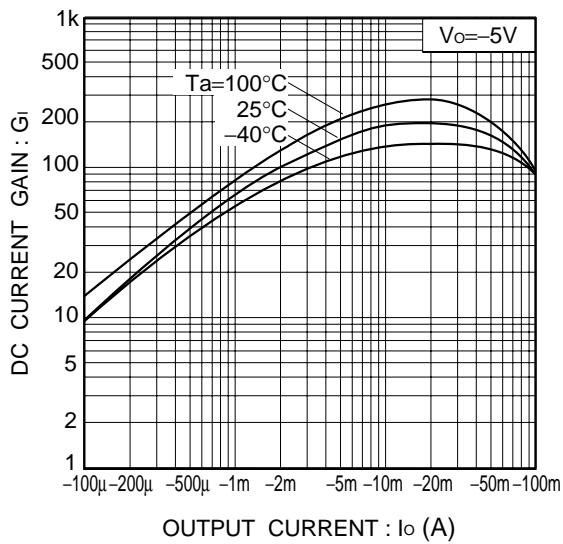


Fig.3 DC current gain vs. output current

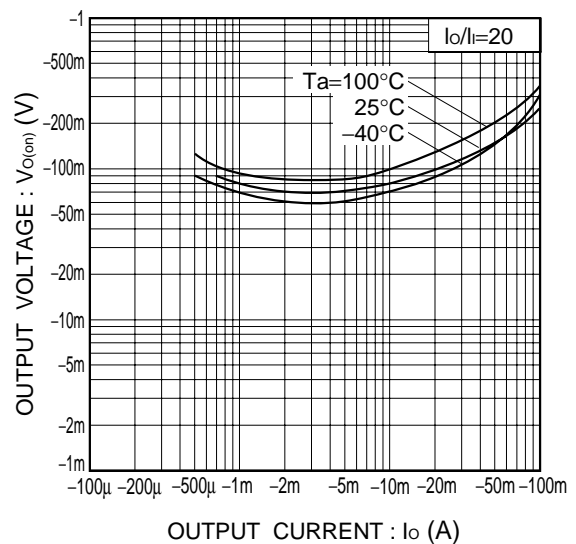
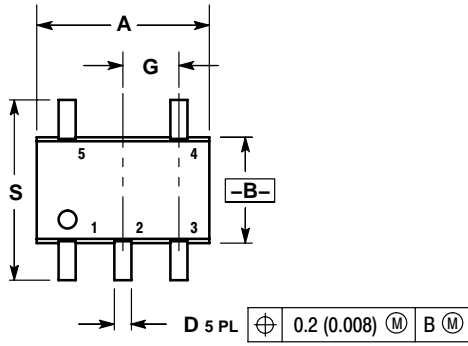


Fig.4 Output voltage vs. output current

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SC-88A



DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.071	0.087	1.80	2.20
B	0.045	0.053	1.15	1.35
C	0.031	0.043	0.80	1.10
D	0.004	0.012	0.10	0.30
G	0.026 BSC		0.65 BSC	
H	---	0.004	---	0.10
J	0.004	0.010	0.10	0.25
K	0.004	0.012	0.10	0.30
N	0.008 REF		0.20 REF	
S	0.079	0.087	2.00	2.20

