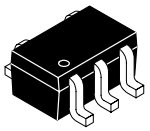
Dual NPN Digital Transistor

- Pb-Free Package is Available.
- S- Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q101 Qualified and PPAP Capable.

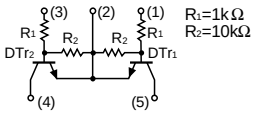
LUMG10NT1G
S-LUMG10NT1G

Ordering Information

Device	Marking	Shipping
LUMG10NT1G S-LUMG10NT1G	N2	3000/Tape&Reel
LUMG10NT3G S-LUMG10NT3G	N2	10000/Tape&Reel



SC-88A



ABSOLUTE MAXIMUM RATINGS (T_A = 25°C)

Rating	Symbol	Value	Unit
Supply voltage	V_{CC}	50	Vdc
Input voltage	V_{IN}	-5 to +10	Vdc
Output current	I_O	100	mAdc
Power dissipation	P_D	150	mW
Storage Temperature	T_{stg}	–55 to +150	°C

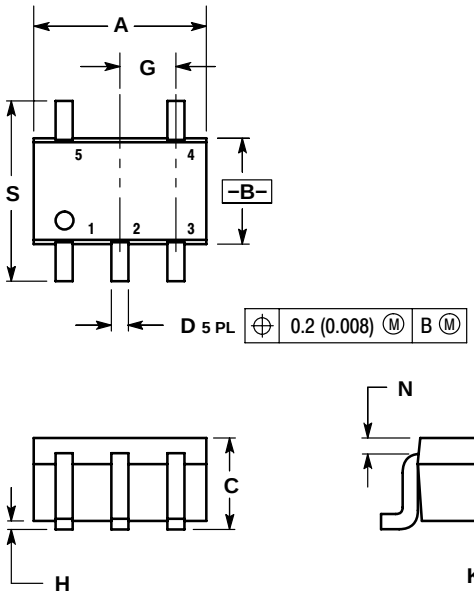
●Electrical characteristics (Ta = 25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Input voltage	$V_{I(off)}$	–	–	0.3	V	V_{CC}=5 V, I_O=100 μA
Input voltage	$V_{I(on)}$	3	–	–	V	V_O= 0.3 V, I_O=20 mA
Output voltage	$V_{O(on)}$	–	0.1	0.3	V	I_O=10 mA, I_I=0.5mA
Input current	I_I	–	–	7.2	mA	V_I=5V
Output current	$I_{O(off)}$	–	–	0.5	μA	V_{CC}=50 V, V_I=0 V
DC current gain	G_I	33	–	–	V	V_O= 5 V, I_O=5 mA
Resistance ratio	R_2/R_1	8	10	12	–	–
Transition frequency	f_T	–	250	–	MHz	V_{CE}=10V, I_E= –5mA, f=100MHz *
Input resistance	R_1	0.7	1	1.3	kΩ	–

* Transition frequency of the device

LUMG10NT1G;S-LUMG10NT1G

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