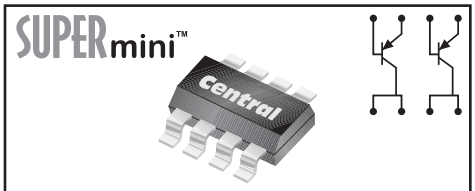
CYT4033D

SURFACE MOUNT
DUAL, ISOLATED
PNP SILICON TRANSISTORS



SOT-228 CASE

Central Semiconductor Corp.

www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CYT4033D type consists of two (2) isolated PNP silicon transistors packaged in an epoxy molded SOT-228 surface mount case. This SUPERmini™ device is manufactured by the epitaxial planar process.

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: (T_A=25°C)	**SYMBOL**		**UNITS**
Collector-Base Voltage	V_{CBO}	80	V
Collector-Emitter Voltage	V_{CEO}	80	V
Emitter-Base Voltage	V_{EBO}	5.0	V
Continuous Collector Current	I_C	1.0	A
Peak Collector Current	I_{CM}	1.5	A
Power Dissipation	P_D	2.0	W
Operating and Storage Junction Temperature	T_J, T_{stg}	-65 to +150	°C
Thermal Resistance	Θ_{JA}	62.5	°C/W

ELECTRICAL CHARACTERISTICS PER TRANSISTOR: (T_A=25°C unless otherwise noted)

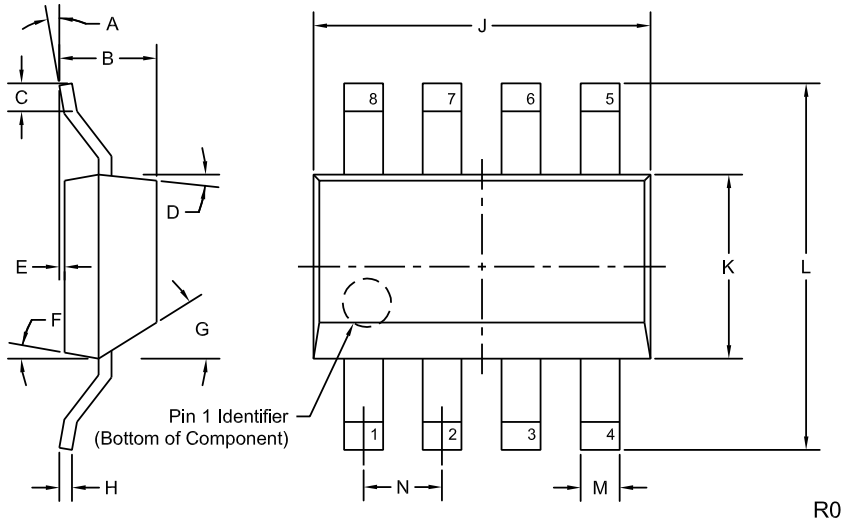
SYMBOL	**TEST CONDITIONS**	**MIN**	**MAX**	**UNITS**
I_{CBO}	V_{CB}=60V		50	nA
I_{EBO}	V_{EB}=5.0V		10	nA
BV_{CBO}	I_C=10μA	80		V
BV_{CEO}	I_C=10mA	80		V
BV_{EBO}	I_E=10μA	5.0		V
$V_{CE(SAT)}$	I_C=150mA, I_B=15mA		0.15	V
$V_{CE(SAT)}$	I_C=500mA, I_B=50mA		0.50	V
$V_{BE(SAT)}$	I_C=150mA, I_B=15mA		0.90	V
$V_{BE(SAT)}$	I_C=500mA, I_B=50mA		1.10	V
h_{FE}	V_{CE}=5.0V, I_C=0.1mA	75		
h_{FE}	V_{CE}=5.0V, I_C=100mA	100	300	
h_{FE}	V_{CE}=5.0V, I_C=500mA	70		
h_{FE}	V_{CE}=5.0V, I_C=1.0A	25		
f_T	V_{CE}=10V, I_C=50mA, f=1.0MHz	100		MHz
C_{ob}	V_{CB}=10V, I_E=0, f=1.0MHz		20	pF
C_{ib}	V_{EB}=0.5V, I_C=0, f=1.0MHz		110	pF

R1 (23-February 2010)

CYT4033D

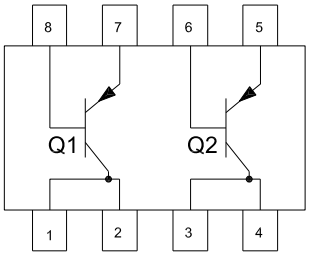
SURFACE MOUNT
DUAL, ISOLATED
PNP SILICON TRANSISTORS

SOT-228 CASE - MECHANICAL OUTLINE



R0

PIN CONFIGURATION



LEAD CODE:

1) Collector Q1
2) Collector Q1
3) Collector Q2
4) Collector Q2
5) Emitter Q2
6) Base Q2
7) Emitter Q1
8) Base Q1

MARKING: FULL PART NUMBER

DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
A	0°	10°	0°	10°
B	---	0.075	---	1.90
C	0.018	---	0.45	---
D	4°	10°	4°	10°
E	0.000	0.004	0.00	0.10
F	4°	10°	4°	10°
G	36°	45°	36°	45°
H	0.010		0.25	
J	0.248	0.264	6.30	6.70
K	0.130	0.146	3.30	3.70
L	0.264	0.287	6.70	7.30
M	0.027	0.030	0.68	0.76
N	0.060		1.53	

SOT-228 (REV: R0)

R1 (23-February 2010)