

CYT5551HCD

**SURFACE MOUNT
DUAL, ISOLATED
HIGH CURRENT
NPN SILICON TRANSISTORS**



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CYT5551HCD type consists of two (2) isolated NPN high current silicon transistors packaged in an epoxy molded SOT-228 surface mount case. Manufactured by the epitaxial planar process, this SUPERmini™ device is ideal for high current applications.



MARKING: FULL PART NUMBER

MAXIMUM RATINGS: (T_A=25°C)

Collector-Base Voltage
Collector-Emitter Voltage
Emitter-Base Voltage
Continuous Collector Current
Power Dissipation
Operating and Storage Junction Temperature
Thermal Resistance

SYMBOL

V_{CBO} 180
V_{CEO} 160
V_{EBO} 6.0
I_C 1.0
P_D 2.0
T_J, T_{stg} -65 to +150
Θ_{JA} 62.5

UNITS

V
V
V
A
W
°C
°C/W

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

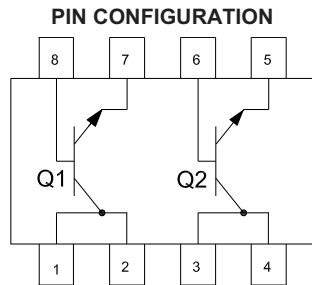
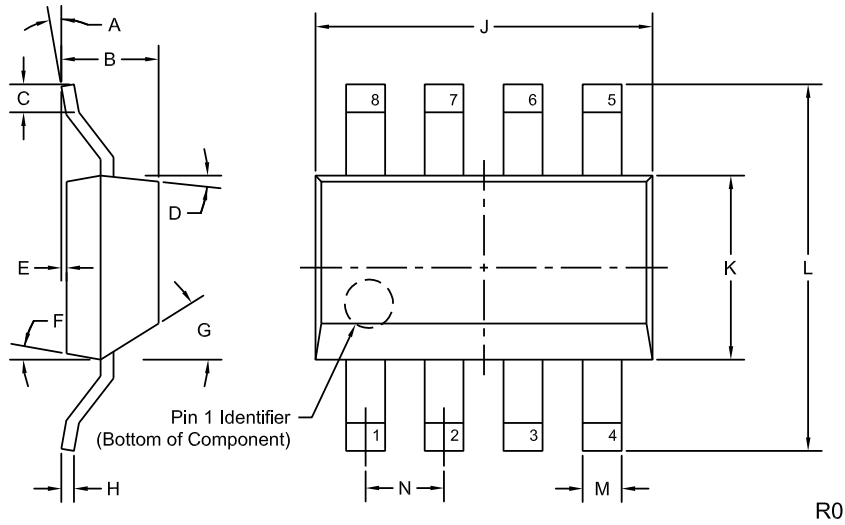
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I _{CBO}	V _{CB} =120V			50	nA
I _{CBO}	V _{CB} =120V, T _A =100°C			50	μA
I _{EBO}	V _{BE} =4.0V			50	nA
BV _{CBO}	I _C =100μA	180			V
BV _{CEO}	I _C =1.0mA	160			V
BV _{EBO}	I _E =10μA	6.0			V
V _{CE(SAT)}	I _C =10mA, I _B =1.0mA			0.15	V
V _{CE(SAT)}	I _C =50mA, I _B =5.0mA			0.20	V
V _{BE(SAT)}	I _C =10mA, I _B =1.0mA			1.00	V
V _{BE(SAT)}	I _C =50mA, I _B =5.0mA			1.00	V
h _{FE}	V _{CE} =5.0V, I _C =1.0mA	80			
h _{FE}	V _{CE} =5.0V, I _C =10mA	80		250	
h _{FE}	V _{CE} =5.0V, I _C =50mA	30			
h _{FE}	V _{CE} =10V, I _C =1.0A		10		
f _T	V _{CE} =10V, I _C =10mA, f=100MHz	100			MHz
C _{ob}	V _{CB} =10V, I _E =0, f=1.0MHz			15	pF

R2 (23-February 2010)

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SOT-228 CASE - MECHANICAL OUTLINE



- LEAD CODE:**
- | | |
|-----------------|---------------|
| 1) Collector Q1 | 5) Emitter Q2 |
| 2) Collector Q1 | 6) Base Q2 |
| 3) Collector Q2 | 7) Emitter Q1 |
| 4) Collector Q2 | 8) Base Q1 |

SYMBOL	INCHES		MILLIMETERS	
	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)

MARKING: FULL PART NUMBER

R2 (23-February 2010)