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SPC-F005.DWG

REVISIONS

DOC. NO. SPC-F005 * Effective: 7/8/02 * DCP No: 1398

DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
1262	A	RELEASED	HO	2/4/03	JWM	2/4/03	JC	2/4/03
1885	B	UPDATED TO ROHS COMPLIANT	EO	02/03/06	HO	2/6/06	HO	2/6/06



Absolute Maximum Ratings:

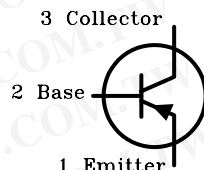
- Collector-Emitter Voltage, $V_{CE0} = 50V$
- Collector-Base Voltage, $V_{CBO} = 75V$
- Emitter-Base Voltage, $V_{EBO} = 5V$
- Continuous Collector Current, $I_C = 2A$
- Base Current, $I_B = 1A$
- Total Power Dissipation ($T_C = +25^\circ C$), $P_D = 10W$
Derate Above $25^\circ C = 0.057W/^\circ C$
- Operating Junction Temperature Range, $T_J = -65^\circ$ to $+200^\circ C$
- Storage Temperature Range, $T_{stg} = -65^\circ$ to $+200^\circ C$
- Thermal Resistance, Junction-to-Case, $R_{thJC} = 17.5^\circ C/W$

Electrical Characteristics: ($T_A = +25^\circ C$ Unless otherwise specified)

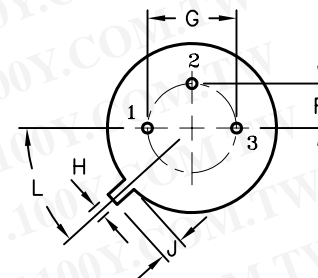
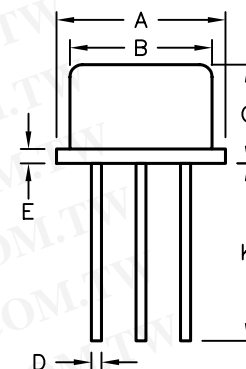
Parameter	Symbol	Test Conditions	Min	Max	Unit
OFF Characteristics					
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = 100mA$, $I_B = 0$ (Note 1)	50	—	V
Collector Cutoff Current	I_{CEX}	$V_{CE} = 75V$, $V_{BE} = 1.5V$	—	0.1	mA
		$V_{CE} = 45V$, $V_{BE} = 1.5V$, $T_C = +150^\circ C$	—	5.0	mA
Emitter Cutoff Current	I_{EBO}	$V_{BE} = 5V$, $I_C = 0$	—	0.1	mA
ON Characteristics (Note 1)					
DC Current Gain	h_{FE}	$I_C = 500mA$, $V_{CE} = 4V$	40	250	—
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 500mA$, $I_B = 50mA$	—	1.2	V
Base-Emitter ON Voltage	$V_{BE(on)}$	$I_C = 500mA$, $V_{CE} = 4V$	—	1.4	V
Small-Signal Characteristics					
Small-Signal Current Gain	h_{fe}	$I_C = 50mA$, $V_{CE} = 4V$, $f = 10MHz$	5.0	—	—
Switching Characteristics					
Turn-On Time	t_{on}	$V_{CC} = 30V$, $I_C = 500mA$, $I_{B1} = 50mA$	—	100	ns
Turn-Off Time	t_{off}	$V_{CC} = 30V$, $I_C = 500mA$, $I_{B1} = I_{B2} = 50mA$	—	1000	ns

Note 1. Pulse Test: Pulse Width $\leq 300\mu s$, Duty Cycle $\leq 2\%$.

PNP



1. EMITTER
2. BASE
3. Collector



勝特力材料 886-3-5753170
胜特力电子(上海) 86-21-34970699
胜特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

Dimensions	A	B	C	D	E	F	G	H	J	K	L
Min.	8.50	7.74	6.09	0.40	—	2.41	4.82	0.71	0.73	12.70	45°
Max.	9.39	8.50	6.60	0.53	0.88	2.66	5.33	0.86	1.02	—	48°

DISCLAIMER:
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TOLERANCES:
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.

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DRAWING TITLE:
Transistor, Silicon, TO-39, PNP, General Purpose

SIZE	DWG. NO.	ELECTRONIC FILE	REV
A	2N5323	35C0723.DWG	B
SCALE:	NTS	U.O.M.: Millimeters	SHEET: 1 OF 1