



CHENMKO ENTERPRISE CO.,LTD

Halogens free devices

**SURFACE MOUNT
PNP SILICON Transistor**

VOLTAGE 100 Volts CURRENT 5 Ampere

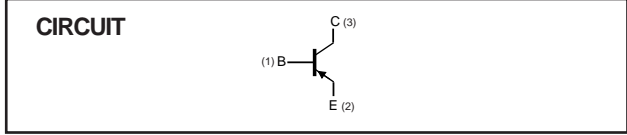
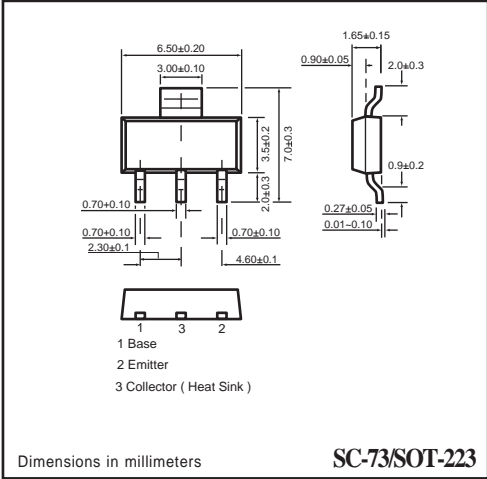
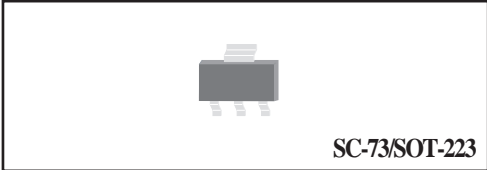
CHT127ZGP

APPLICATION
* Telephony and professional communication equipment.
* Other switching applications.

FEATURE
* Small flat package. (SC-73/SOT-223)
* Suitable for high packing density.
* High saturation current capability.

CONSTRUCTION
* PNP SILICON Transistor

MARKING
* ZBP



LIMITING VALUES
In accordance with the Absolute Maximum Rating System (IEC 60134).

SYMBOL	PARAMETER	CONDITIONS	MIN.	MAX.	UNIT
V _{CB0}	collector-base voltage	open emitter	-	-100	V
V _{CE0}	collector-emitter voltage	open base	-	-100	V
V _{EB0}	emitter-base voltage	open collector	-	-5.0	V
I _C	collector current (DC)		-	-5.0	A
I _{CM}	Peak Collector Current		-	-8.0	A
P _{tot}	total power dissipation	T _{amb} ≤ 25 °C; note 1	-	2	W
T _{stg}	storage temperature		-65	+150	°C
T _j	junction temperature		-	150	°C
T _{amb}	operating ambient temperature		-65	+150	°C

Note
1. Transistor mounted on an FR4 printed-circuit board.

RATING CHARACTERISTIC CURVES (CHT127ZGP)

CHARACTERISTICS

$T_{amb} = 25\text{ }^{\circ}\text{C}$ unless otherwise specified.

SYMBOL	PARAMETER	CONDITIONS	MIN.	MAX.	UNIT
I_{CEO}	collector cut-off current	$V_{CE} = -50\text{ V}$	–	-500	μA
I_{CBO}	collector cut-off current	$V_{CB} = -100\text{ V}$	–	-200	μA
I_{EBO}	emitter cut-off current	$V_{EB} = -5.0\text{ V}$	–	-2.0	mA
h_{FE}	DC current gain	$I_C = -500\text{ mA}; V_{CE} = -3\text{ V}$ $I_C = -3.0\text{ A}; V_{CE} = -3\text{ V}$	1000 1000	– –	
V_{CEsat}	collector-emitter saturation voltage	$I_C = -3.0\text{ A}; I_B = -12\text{ mA}$	–	-2.0	V
		$I_C = -5.0\text{ A}; I_B = -20\text{ mA}$	–	-4.0	V
V_{BEON}	base-emitter saturation voltage	$I_C = -3.0\text{ A}; V_{CE} = -3.0\text{ V}$	–	-2.5	V
C_{ob}	collector capacitance	$I_E = I_E = 0; V_{CB} = -10\text{ V}; f = 1\text{ MHz}$	–	300	pF
f_T	transition frequency	$I_C = -3.0\text{ A}; V_{CE} = -4\text{ V}; f = 1.0\text{ MHz}$	4.0	–	MHz