CHENMKO ENTERPRISE CO.,LTD

Halogens free devices

SURFACE MOUNT
PNP SILICON Transistor

VOLTAGE 30 Volts   CURRENT 1 Ampere

CHTA64ZGP

APPLICATION

* Telephony and proferssional communction equipment.
* Other switching applications.

FEATURE

* Small flat package. (SC-73/SOT-223)
* Suitable for high packing density.

CONSTRUCTION
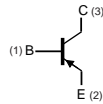
*PNP SILICON Transistor

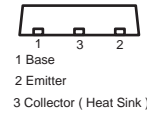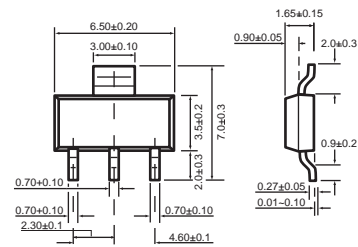## MARKING

* ZGP

CIRCUIT

C (3)
(1) B
E (2)

SC-73/SOT-223

1 Base
2 Emitter
3 Collector (Heat Sink)

Dimensions in millimeters

SC-73/SOT-223

LIMITING VALUES

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

SYMBOL	PARAMETER	CONDITIONS	MIN.	MAX.	UNIT
V_{CBO}	collector-base voltage	open emitter	–	-30	V
V_{CEO}	collector-emitter voltage	open base	–	-30	V
V_{EBO}	emitter-base voltage	open collector	–	-10	V
I_C	collector current (DC)		–	-1000	mA
P_{tot}	total power dissipation	$T_{amb} \leq 25$ °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.

2004-7

RATING CHARACTERISTIC CURVES (CHTA64ZGP)

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
$R_{th\ j\text{-}a}$	thermal resistance from junction to ambient	note 1	357	K/W

Note

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

CHARACTERISTICS

T_{amb} = 25 °C unless otherwise speciÞed.

SYMBOL	PARAMETER	CONDITIONS	MIN.	MAX.	UNIT
I_{CBO}	collector cut-off current	V_{CB} = -30 V	–	-100	nA
I_{EBO}	emitter cut-off current	V_{EB} = - 1 0 V	–	-100	nA
h_{FE}	DC current gain	I_C = -10 mA; V_{CE} = -5V I_C = -100 mA; V_{CE} =-5V	10000 20000	– –	
$V_{CE(sat)}$	collector-emitter saturation voltage	I_C = -100 mA; I_B = -0.1 mA	–	-1.5	V
$V_{BE(ON)}$	base-emitter saturation voltage	I_C=-100 mA; V_{CE}=5-V	–	-2	V
f_T	transition frequency	I_C = -10 mA; V_{CE} = 5 V; f = 100MHz	125	–	MHz