



CHENMKO ENTERPRISE CO.,LTD

Halogens free devices

**SURFACE MOUNT
PNP General Purpose Transistor -**

VOLTAGE 60 Volts CURRENT 0.5 Ampere

CHT55GP

APPLICATION

- * General purpose applications.

FEATURE

- * Small surface mounting type. (SOT-23)
- * Low current (Max.=500mA).
- * Suitable for high packing density.
- * Low voltage (Max.=60V) .
- * High saturation current capability.

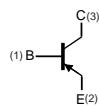
CONSTRUCTION

- * PNP General Purpose Transistor

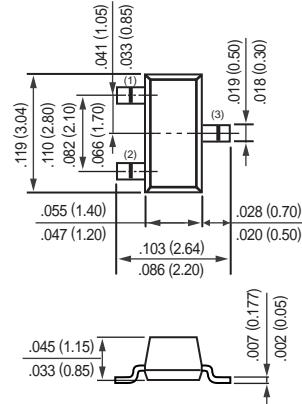
MARKING

- * T55

CIRCUIT



SOT-23



Dimensions in millimeters

SOT-23

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	-	-60	V
V_{CEO}	collector-emitter voltage	open base	-	-60	V
V_{EBO}	emitter-base voltage	open collector	-	-4	V
I_C	collector current DC		-	-500	mA
I_{CM}	peak collector current		-	-500	mA
I_{BM}	peak base current		-	-100	mA
P_{tot}	total power dissipation	$T_{amb} \leq 25^\circ\text{C}$; note 1	-	350	mW
T_{stg}	storage temperature		-55	+150	°C
T_j	junction temperature		-	150	°C
T_{amb}	operating ambient temperature		-55	+150	°C

Note

- Transistor mounted on an FR4 printed-circuit board.

RATING CHARACTERISTIC CURVES (CHT55GP)

THERMAL CHARACTERISTICS

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

Note

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

CHARACTERISTICS

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

SYMBOL	PARAMETER	CONDITIONS	MIN.	MAX.	UNIT
I_{CBO}	collector cut-off current	$I_E = 0; V_{CB} = -60 V$	–	-0.1	uA
I_{EBO}	emitter cut-off current	$I_C = 0; V_{EB} = -4 V$	–	-0.1	uA
h_{FE}	DC current gain	$V_{CE} = -1.0 V$; note 1 $I_C = -10 mA$ $I_C = -100 mA$	100 100	– –	
V_{CEsat}	collector-emitter saturation voltage	$I_C = -100 mA; I_B = -10 mA$	–	-0.25	V
V_{BESat}	base-emitter saturation voltage	$I_C = -100 mA; V_{CE} = -1.0 V$	–	-1.2	V
C_{cb}	collector-base capacitance	$I_E = i_e = 0; V_{CB} = -20V; f = 1 MHz$	–	3	pF
f_T	transition frequency	$I_C = 100 mA; V_{CE} = -1.0 V; f = 100 MHz$	50	–	MHz

Note

1. Pulse test: $t_p \leq 300 \mu s$; $\delta \leq 0.02$.