



**CHENMKO ENTERPRISE CO.,LTD**

*Halogens free devices*

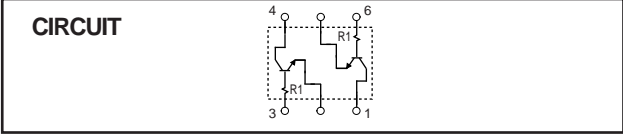
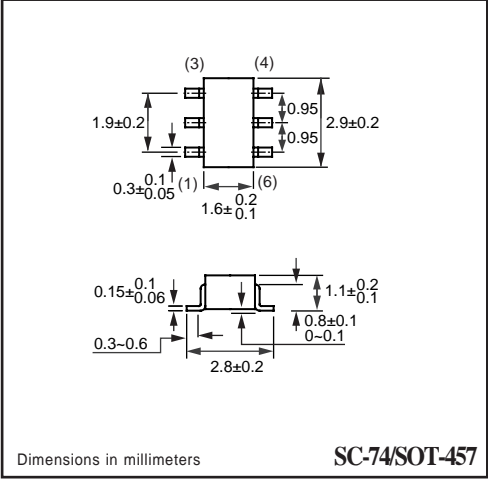
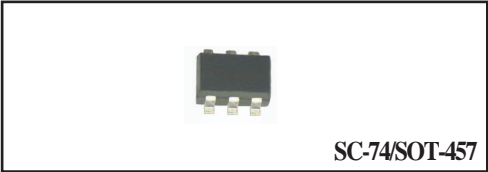
**SURFACE MOUNT**  
**Dual Digital Silicon Transistor**  
 VOLTAGE 30 Volts CURRENT 600 mAmpere

**CHIMH60GP**

**APPLICATION**  
 \* Switching circuit, Inverter, Interface circuit, Driver circuit.

**FEATURE**  
 \* Small surface mounting type. (SC-74/SOT-457)  
 \* High current gain.  
 \* Suitable for high packing density.  
 \* Low collector-emitter saturation.  
 \* High saturation current capability.  
 \* Two CHDTC323T chips in one package.  
 \* Built in bias resistor(R1=2.2kΩ, Typ. )

**MARKING**  
 \* I60



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

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
Vcbo	Collector-Base voltage		30	V
Vceo	Collector-Emitter voltage		15	V
Vebo	Emitter-Base voltage		5	V
Ic(Max.)	Collector current		600	mA
Pd	Power dissipation	T <sub>amb</sub> ≤ 25 °C, Note 1	200	mW
Tstg	Storage temperature		-55 +150	°C
Tj	Junction temperature		-55 +150	°C
RθJ-s	Thermal resistance , Note 1	junction - soldering point	140	°C/W

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

## RATING CHARACTERISTIC ( CHIMH60GP )

### CHARACTERISTICS

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

SYMBOL	PARAMETER	CONDITIONS	MIN.	TYP.	MAX.	UNIT
BVCBO	Collector-base breakdown voltage	$I_C=50\mu\text{A}$	30	–	–	V
BVCEO	Collector-emitter breakdown voltage	$I_C=1.0\text{mA}$	15	–	–	V
BVEBO	Emitter-base breakdown voltage	$I_E=50\mu\text{A}$	5.0	–	–	V
ICBO	Collector cutoff current	$V_{CB}=20\text{V}$	–	–	0.5	$\mu\text{A}$
IEBO	Emitter cutoff current	$V_{EB}=4\text{V}$	–	–	0.5	$\mu\text{A}$
$V_{CE(sat)}$	Collector-emitter saturation voltage	$I_C/I_B=50\text{mA}/2.5\text{mA}$	–	0.04	0.08	V
hFE	DC current gain	$I_C=50\text{mA}; V_{CE}=5.0\text{V}$	100	250	600	
R <sub>1</sub>	Input resistor		1.64	2.2	2.86	K $\Omega$
f <sub>T</sub>	Transition frequency	$I_E=-50\text{mA}, V_{CE}=10.0\text{V}$ $f=100\text{MHz}$	–	200	–	MHz

### Note

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

## RATING CHARACTERISTIC CURVES ( CHIMH60GP )

### Typical Electrical Characteristics

Fig.1 DC current gain vs. collector current

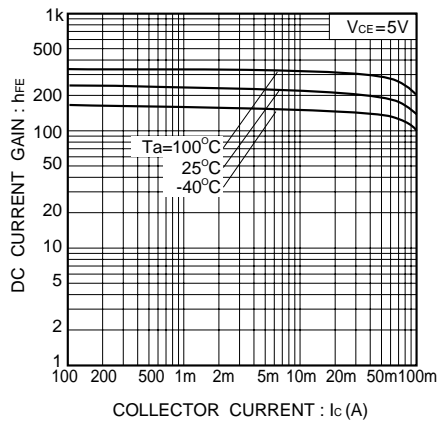


Fig.2 Collector-emitter voltage vs. collector current

