CHENMKO ENTERPRISE CO.,LTD

2SB1182GP

Halogens free devices

SMALL FLAT
PNP Epitaxial Transistor

VOLTAGE 32 Volts CURRENT 2 Ampere

APPLICATION

* Power driver and Dc to DC convertor .

FEATURE

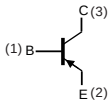
* Small flat package. (DPAK)
* PC= 1.5 W (mounted on ceramic substrate).
* High saturation current capability.

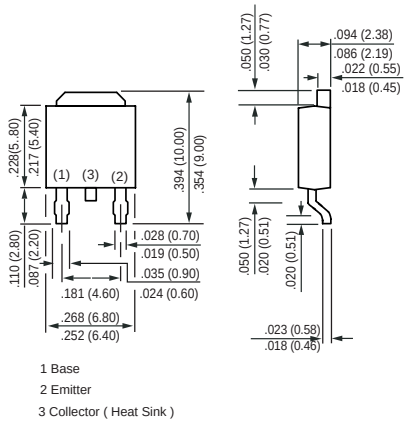
CONSTRUCTION

* PNP Switching Transistor

DPAK

CIRCUIT





1 Base
2 Emitter
3 Collector (Heat Sink)

Dimensions in inches and (millimeters)

DPAK

MAXIMUM RATINGES (At T_A = 25°C unless otherwise noted)

RATINGS	CONDITION	SYMBOL	MIN.	MAX.	UNITS
Collector - Base Voltage	Open Emitter	V_{CBO}	-	-40	Volts
Collector - Emitter Voltage	Open Base	V_{CEO}	-	-32	Volts
Emitter - Base Voltage	Open Collector	V_{EBO}	-	-5	Volts
Collector Current DC		I_C	-	-2	Amps
Peak Collector Current		I_{CM}	-	-3	Amps
Peak Base Current		I_{BM}	-	-0.5	Amps
Total Power Dissipation	$T_A \leq 25^oC$; Note 1	P_{TOT}	-	1500	mW
Storage Temperature		T_{STG}	-55	+150	°C
Junction Temperature		T_J	-	+150	°C
Operating Ambient Temperature		T_{AMB}	-55	+150	°C

2007-6

Note

1. Transistor mounted on ceramic substrate 50mmX50mmx0.8t.
2. Measured at Pulse Width 300 us, Duty Cycle 2%.

RATING CHARACTERISTIC CURVES (2SB1182GP)

CHARACTERISTICS (At T_A = 25°C unless otherwise noted)

PARAMETERS	CONDITION	SYMBOL	MIN.	TYPE	MAX.	UNITS
Collector Cut-off Current	I_E=0; V_{CB}=-20V	I_{CBO}	-	-	-1.0	uA
Emitter Cut-off Current	I_C=0; V_{EB}=-4V	I_{EBO}	-	-	-1.0	uA
DC Current Gain	V_{CE}=-3V; Note 1 I_C=-0.5A	h_{FE}	82	-	390	
Collector-Emitter Saturation Voltage	I_C=-2A; I_B=-0.2A	V_{CEsat}	-	-0.3	-0.5	Volts
Base-Emitter Saturatio Voltage	I_C=-2A; I_B=-0.2A	V_{BEsat}	-	-1.0	-1.5	Volts
Collector Capacitance	I_E=ie=0; V_{CB}=-10V; f=1MHz	C_C	-	55	-	pF
Transition Frequency	I_C=-0.1A; V_{CE}=-5.0V; f=100MHz	f_T	-	100	-	MHz

Note :
1. Pulse test: tp ≤ 300uSec; δ ≤ 0.02.

RATING CHARACTERISTIC CURVES (2SB1182GP)

Typical Electrical Characteristics

Figure 1. C_C - Reverse V_{CB}

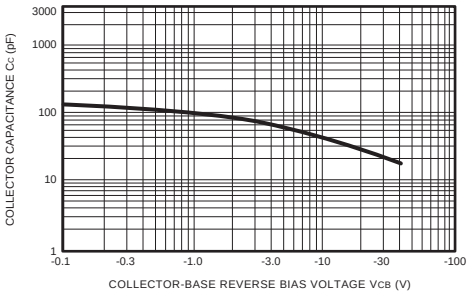


Figure 2. Cutoff Frequency - I_C

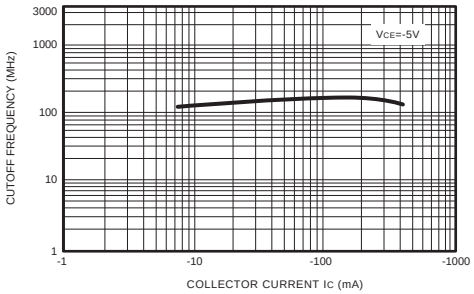


Figure 3. h_{FE} - I_C

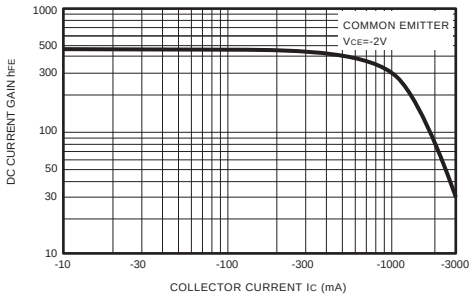


Figure 4. P_C - T_A

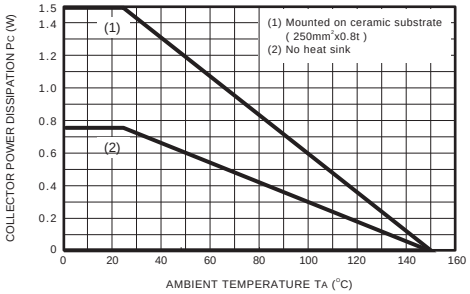


Figure 5. $V_{CE(sat)}$ - I_C

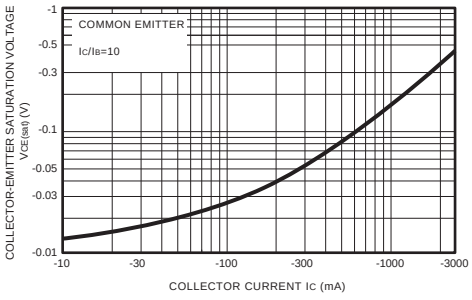


Figure 6. $V_{BE(sat)}$ - I_C