

## LARGE-POWER (TO-126LP) TRANSISTORS

### Features

- ☆ No screw hole makes it possible to mount a large-sized chip, permitting more collector dissipation.  
Conventional type: 10W (Tc=25°C), TO-126LP: 20W (Tc=25°C)
- ☆ Facilitates high-density mounting.
- ☆ Replaceable for TO-220 20W class

### ac High Current Switching Use

For PNP, (-) sign is omitted. \*: Tc=25°C

Type No.	Absolute Maximum Ratings/Ta=25°C				Electrical Characteristics/Ta=25°C								
	V <sub>CBO</sub> (V)	V <sub>CEO</sub> (V)	I <sub>C</sub> (A)	*P <sub>C</sub> (W)	V <sub>CE</sub> (V)	I <sub>C</sub> (A)	h <sub>FE</sub>	I <sub>C</sub> (A)	I <sub>B</sub> (mA)	V <sub>CE(sat)</sub> typ(V)	V <sub>CE</sub> (V)	I <sub>C</sub> (A)	f <sub>T</sub> typ (MHz)
2SB1165 2SD1722	60	50	5	20	2	0.5	70 ~ 400	3	150	0.28 0.22	5	1	130 180
2SB1166 2SD1723			8					4	200	0.25 0.2			130 180
2SB1167 2SD1724	120	100	3	20	5	0.5	70 ~ 400	1.5	150	0.2 0.15	10	0.5	130 180
2SB1168 2SD1725			4					2	200	0.2 0.15			130 180

### ac High h<sub>FE</sub>

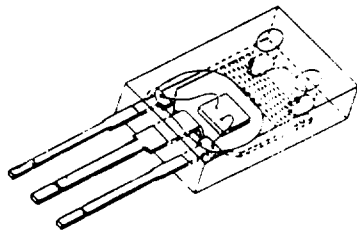
2SA1692 2SC3807	30	25	2	15	5	0.1	500 ~ 1200	1	20	max 0.5	10	50m	110 260
2SC3808	80	60			5	0.5	800 ~ 3200						800 ~ 3200

### ac Darlington (Driver Use)

★: zener diode (60±10V) contained.

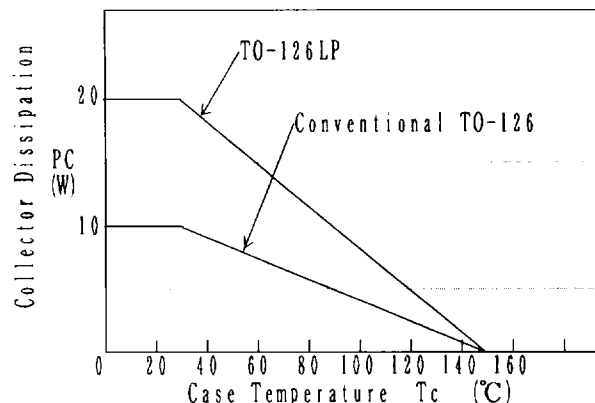
Type No.	Absolute Maximum Ratings/Ta=25°C				Electrical Characteristics/Ta=25°C											
	V <sub>CBO</sub> (V)	V <sub>CEO</sub> (V)	I <sub>C</sub> (A)	*P <sub>C</sub> (W)	V <sub>CE</sub> (V)	I <sub>C</sub> (A)	h <sub>FE</sub> min	I <sub>C</sub> (A)	I <sub>B</sub> (mA)	V <sub>CE(sat)</sub> max(V)	V <sub>CE</sub> (V)	I <sub>C</sub> (A)	f <sub>T</sub> typ (MHz)	S/W Time t <sub>on</sub> t <sub>stg</sub> t <sub>f</sub> (μs)		
2SC3784	★ 50	★ 50	1.2	20	5	0.5	1000	0.5	2	1.5	5	0.5	180	0.2	2.2	0.4
2SC3785			2			1		1	4					0.2	3.5	0.5
2SC3786			3			1.5		1.5	6					0.2	3.5	0.7

☆ Cross-Sectional View

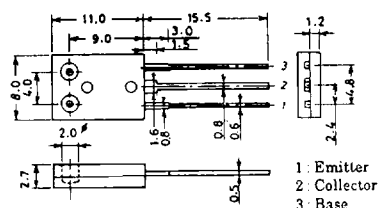


☆ Comparison between TO-126 (conventional type) and TO-126LP

Collector dissipation 20W max. (Tc=25°C) guaranteed



☆ Case Outline (unit: mm) SANYO: TO-126LP



These specifications are subject to change without notice.