



SEMICONDUCTORS

EIAJ Type No.
2SB493

GERMANIUM PNP ALLOY JUNCTION TRANSISTOR

APPLICATION:

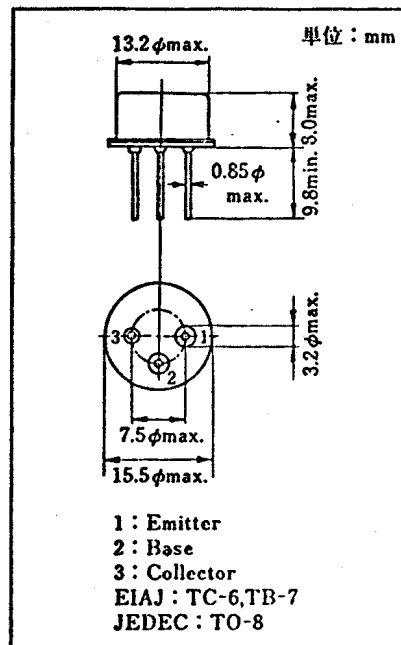
- Strobo/DC Converter

FEATURES:

- Low Collector-Emitter Saturation Voltage

ABSOLUTE MAXIMUM RATINGS ($T_a=25^\circ\text{C}$)

Collector-Base Voltage ($-V_{CB0}$)	40V
Collector-Emitter Voltage ($-V_{CE0}$)	20V
Emitter-Base Voltage ($-V_{EB0}$)	14V
Collector Current ($-I_C$)	3A
Peak Collector Current ($-I_{CM}$)	5A
Power Dissipation (P_C)	9W
Junction Temperature (T_j)	90°C
Storage Temperature (T_{stg})	-55~+75°C



ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$)

Characteristic	Symbol	Conditions	Min.	Typ.	Max.	Unit
Collector Cutoff Current	$-I_{CE0}$	$-V_{CE}=20V, I_B=0$			10	mA
Collector Cutoff Current	$-I_{CB0}$	$-V_{CB}=40V, I_E=0$			1	mA
Emitter Cutoff Current	$-I_{EB0}$	$-V_{CB}=10V, I_C=0$			1	mA
DC Current Gain	h_{FE}	$-V_{CB}=0, I_E=3A$	40			
Transition Frequency	f_T	$-V_{CB}=2V, I_E=0.1A$	300			KHz

The device specifications are subject to change for improvement without prior notice.

MANUFACTURED BY PANASONIC ELECTRONIC CO., LTD.

SEMICONDUCTOR
DIVISION