

No.2016A

2SD1627

NPN Epitaxial Planar Silicon Transistor

Driver Applications

Applications

- Motor drivers, hammer drivers, relay drivers, voltage regulator control

Features

- High DC current gain ($h_{FE} \geq 4000$)
- Wide ASO
- Very small size making it easy to provide high-density, small-sized hybrid ICs.

Absolute Maximum Ratings at Ta=25°C

Absolute Maximum Ratings at Ta=25°C		unit
Collector to Base Voltage	V _{CBO}	30 V
Collector to Emitter Voltage	V _{CEO}	25 V
Emitter to Base Voltage	V _{EBO}	10 V
Collector Current	I _C	2 A
Collector Current(Pulse)	I _{CP}	3 A
Collector Dissipation	P _C	500 mW
Mounted on ceramic board (250mm ² x 0.8mm)		1.5 W
Junction Temperature	T _j	150 °C
Storage Temperature	T _{stg}	-55 to +150 °C

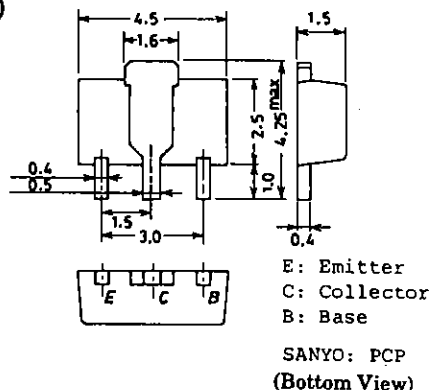
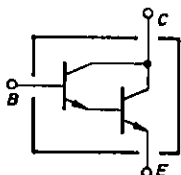
Electrical Characteristics at $T_a=25^{\circ}\text{C}$

Electrical Characteristics at Ta=25°C			min	typ	max	unit
Collector Cutoff Current	I_{CB0}	$V_{CB}=20V, I_E=0$			1	μA
Emitter Cutoff Current	I_{EB0}	$V_{EB}=8V, I_C=0$			1	μA
DC Current Gain	$h_{FE(1)}$	$V_{CE}=2V, I_C=500mA$	4000			
	$h_{FE(2)}$	$V_{CE}=2V, I_C=10mA$	3000			
Gain-Bandwidth Product	f_T	$V_{CE}=10V, I_C=50mA$		120		MHz
C-E Saturation Voltage	$V_{CE(sat)}$	$I_C=600mA, I_B=0.15mA$		0.9	1.5	V
B-E Saturation Voltage	$V_{BE(sat)}$	$I_C=600mA, I_B=0.15mA$			2.0	V
C-B Breakdown Voltage	$V_{(BR)EBO}$	$I_C=10\mu A, I_E=0$	30			V
C-E Breakdown Voltage	$V_{(BR)CEO}$	$I_C=1mA, R_{BE}=\infty$	25			V
E-B Breakdown Voltage	$V_{(BR)EBO}$	$I_E=10\mu A, I_C=0$	10			V

Marking :DJ

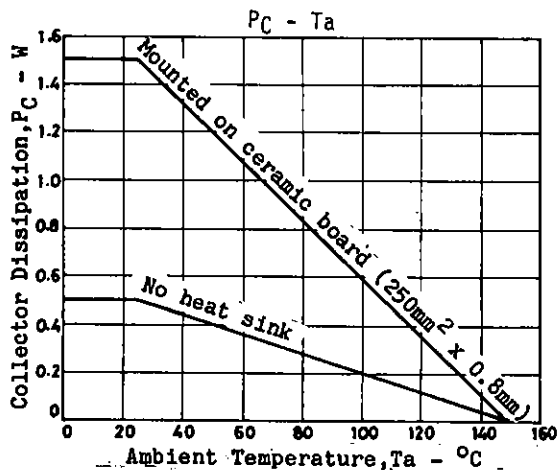
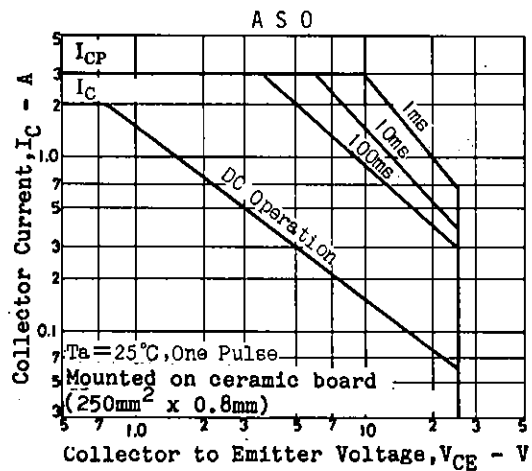
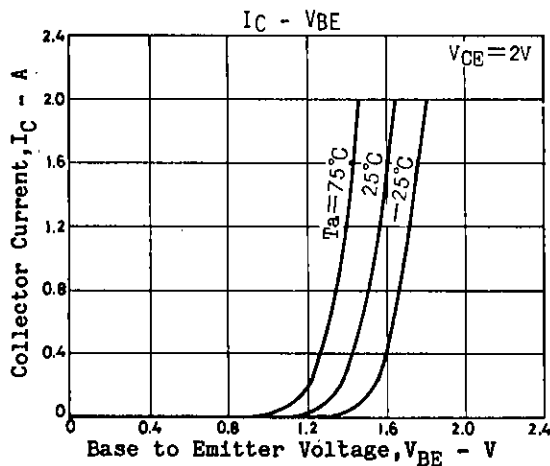
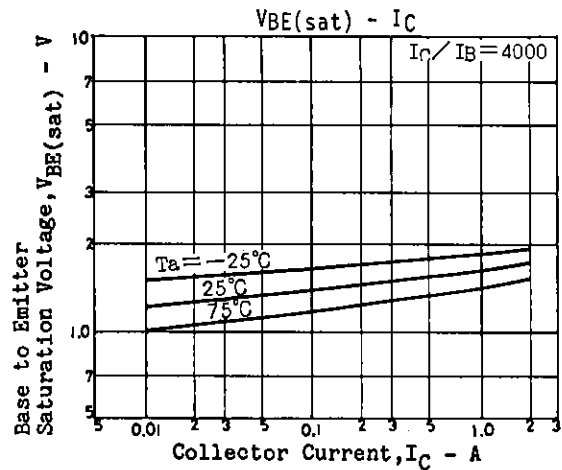
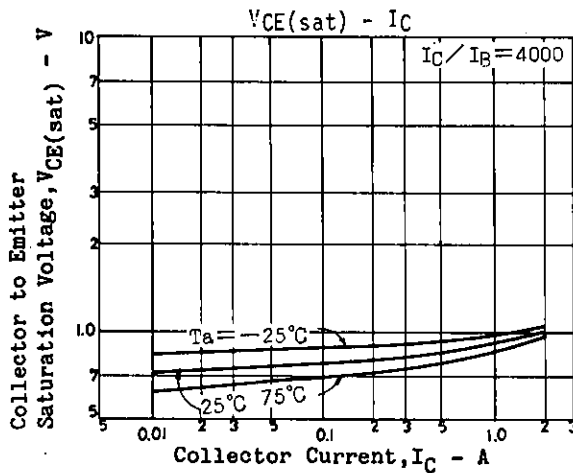
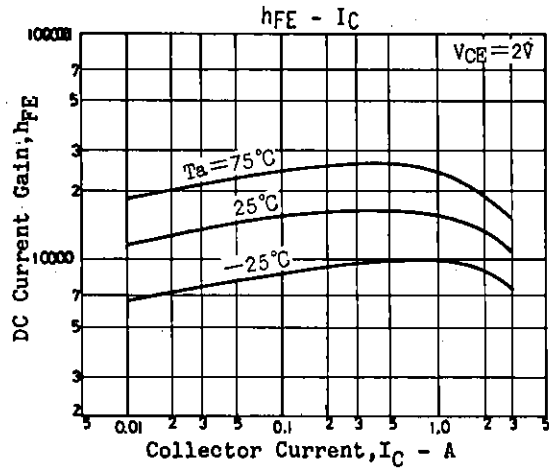
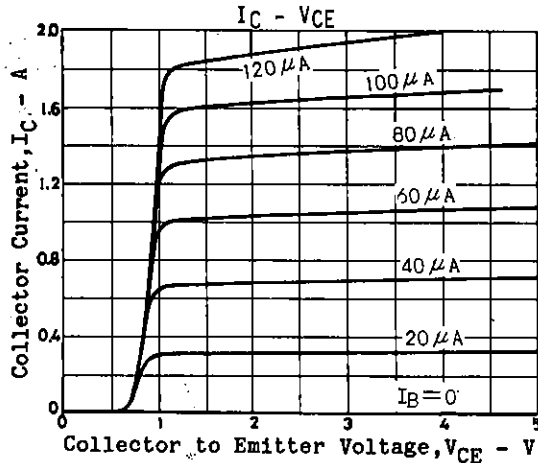
Package Dimensions 2038

Electrical Connection



SANYO: PCP
(Bottom View)

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