

SANYO

No.2353

2SD1854

NPN Epitaxial Planar Silicon Darlington Transistor

Driver Applications

Applications

Motor drivers, hammer drivers, relay drivers

Features

- . High DC current gain
- . Darlington connection

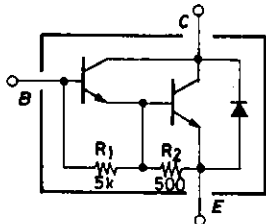
Absolute Maximum Ratings at Ta=25°C

			unit
Collector to Base Voltage	V_{CB0}	80	V
Collector to Emitter Voltage	V_{CEO}	60	V
Emitter to Base Voltage	V_{EBO}	6	V
Collector Current	I_C	1.5	A
Collector Current(Pulse)	I_{CP}	3	A
Collector Dissipation	P_C	1	W
Junction Temperature	T_j	150	°C
Storage Temperature	T_{stg}	-55 to +150	°C

Electrical Characteristics at Ta=25°C

			min	typ	max	unit
Collector Cutoff Current	I_{CBO}	$V_{CB}=60V, I_E=0$			10	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB}=5V, I_C=0$			2.5	mA
DC Current Gain	$h_{FE}(1)$	$V_{CE}=2V, I_C=0.5A$	1000			
	$h_{FE}(2)$	$V_{CE}=2V, I_C=1A$	2000			
C-E Saturation Voltage	$V_{CE(sat)}$	$I_C=1A, I_B=2mA$			1.5	V
B-E Saturation Voltage	$V_{BE(sat)}$	$I_C=1A, I_B=2mA$			2.0	V
C-B Breakdown Voltage	$V_{(BR)CBO}$	$I_C=1mA$	80			V
C-E Breakdown Voltage	$V_{(BR)CEO}$	$I_C=25mA$	60			V

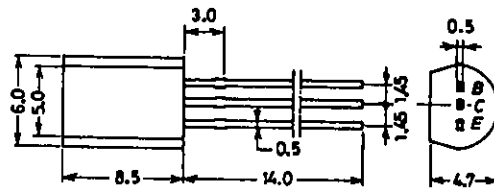
Electrical Connection



Unit(Resistance : Ω)

Package Dimensions 2006A

(unit: mm)

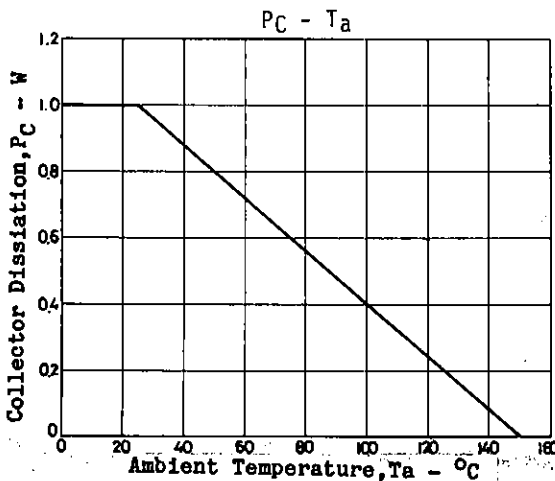
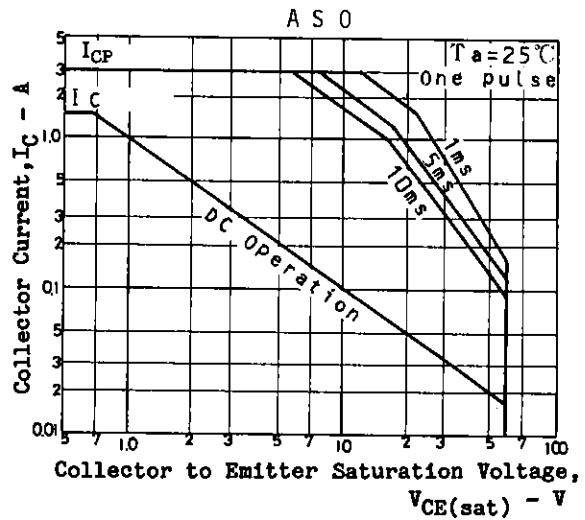
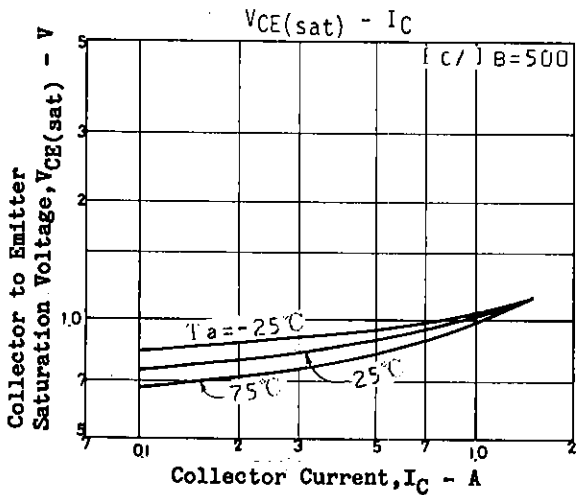
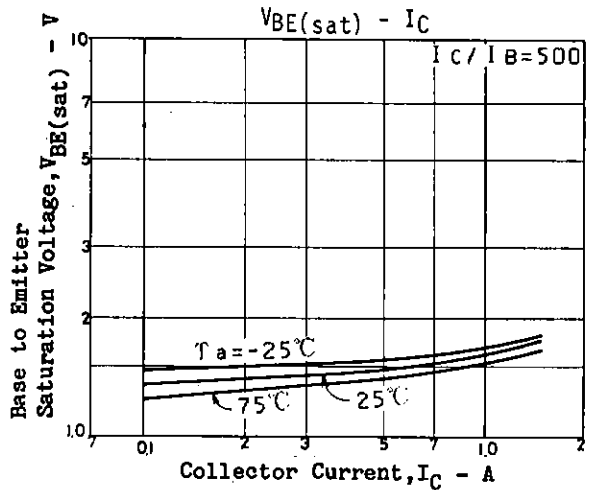
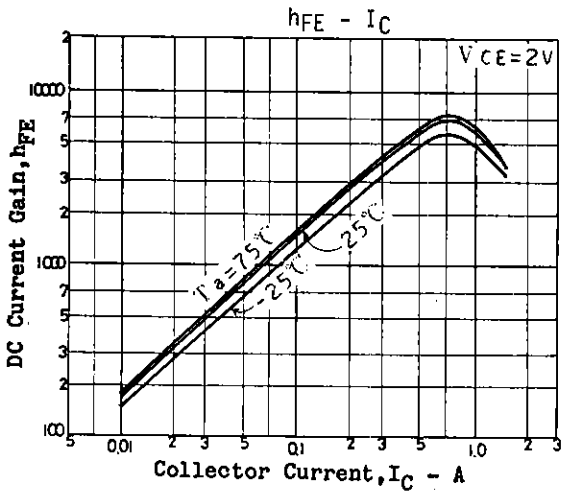
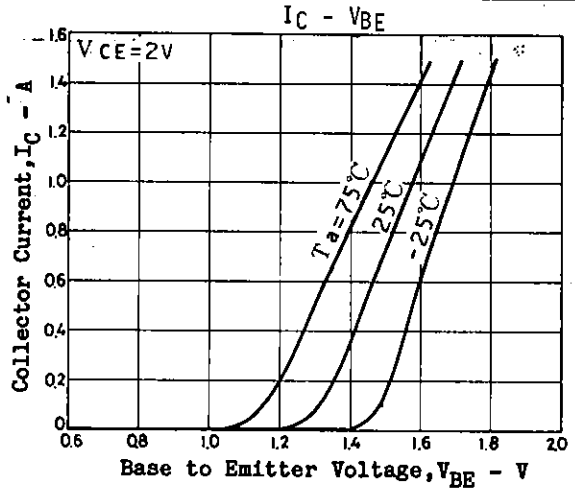
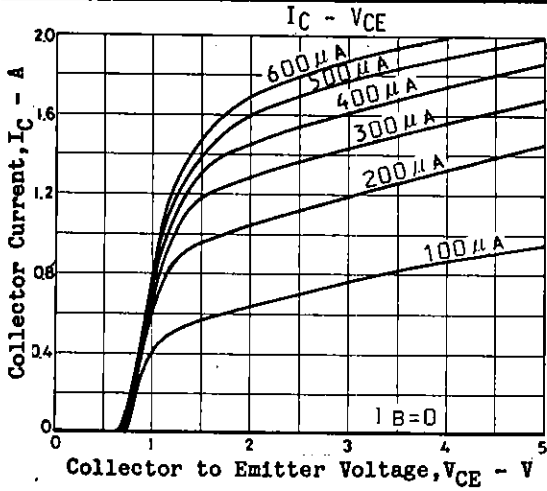


EIAJ: SC-51
SANYO:MP

B: Base
C: Collector
E: Emitter

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