

查询"SD1853"供应商

SANYO

No.2506

2SD1853

NPN Epitaxial Planar Silicon Darlington Transistor

Driver Applications

Applications

Motor drivers, hammer drivers, relay drivers

Features

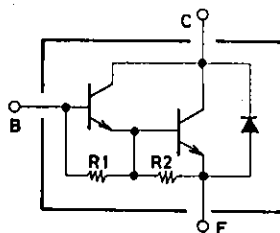
- . High DC current gain
- . Low saturation voltage

Absolute Maximum Ratings at $T_a=25^{\circ}\text{C}$

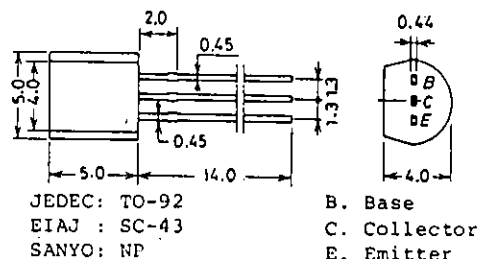
			unit
Collector to Base Voltage	V_{CB0}	80	V
Collector to Emitter Voltage	V_{CEO}	60	V
Emitter to Base Voltage	V_{EBO}	6	V
Collector Current	I_C	1.5	A
Collector Current(Pulse)	I_{CP}	3	A
Collector Dissipation	P_C	0.7	W
Junction Temperature	T_j	150	$^{\circ}\text{C}$
Storage Temperature	T_{stg}	-55 to +150	$^{\circ}\text{C}$

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

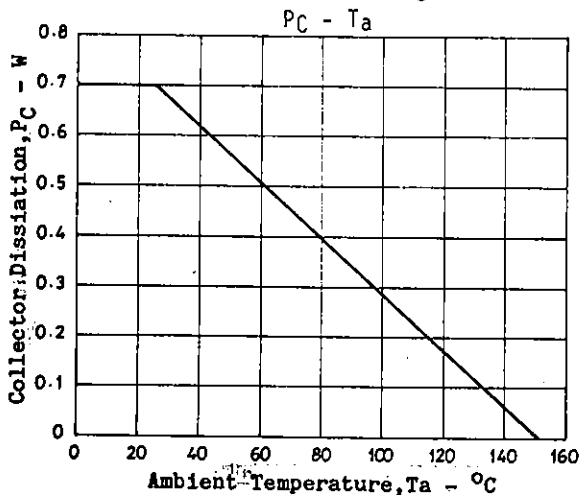
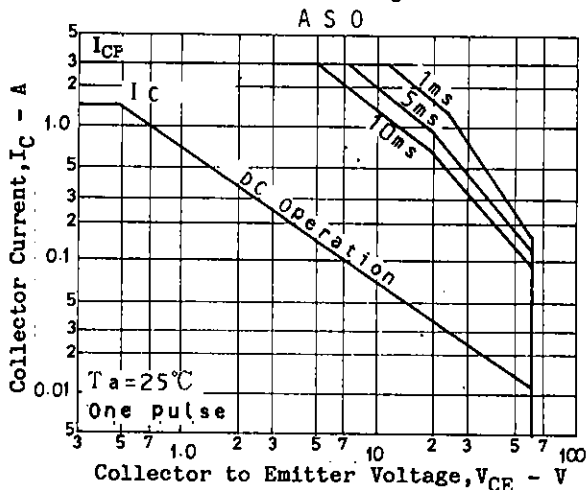
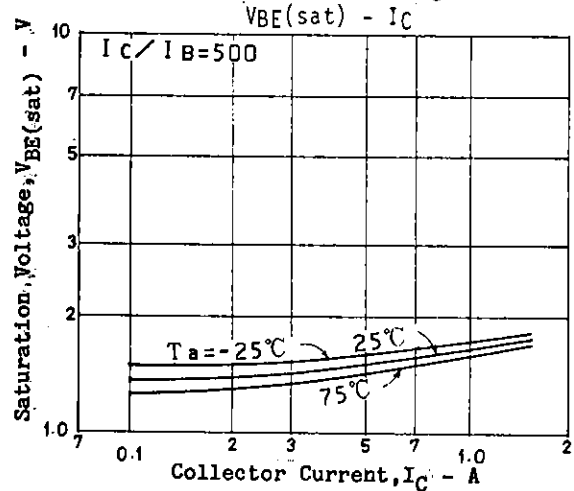
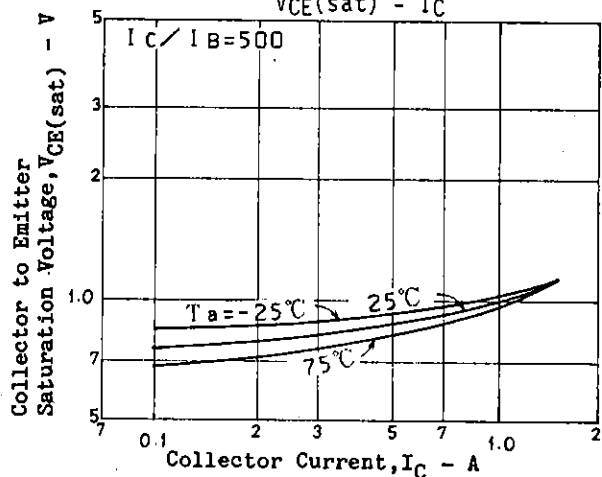
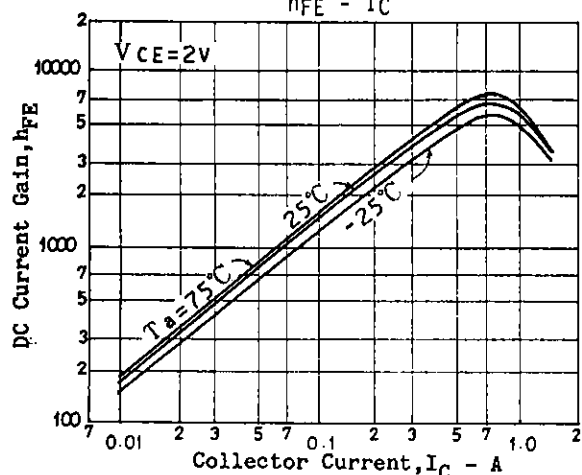
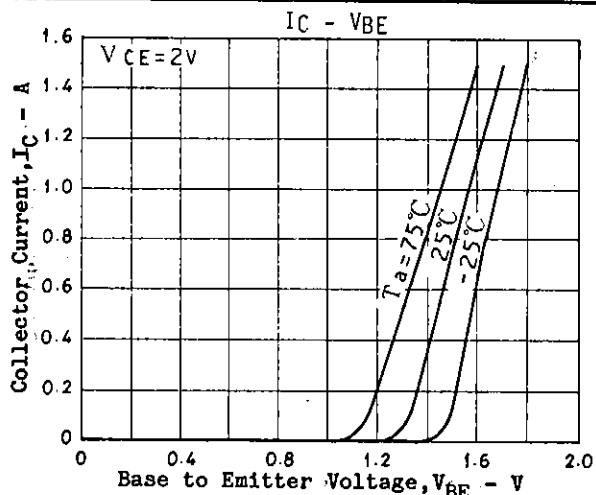
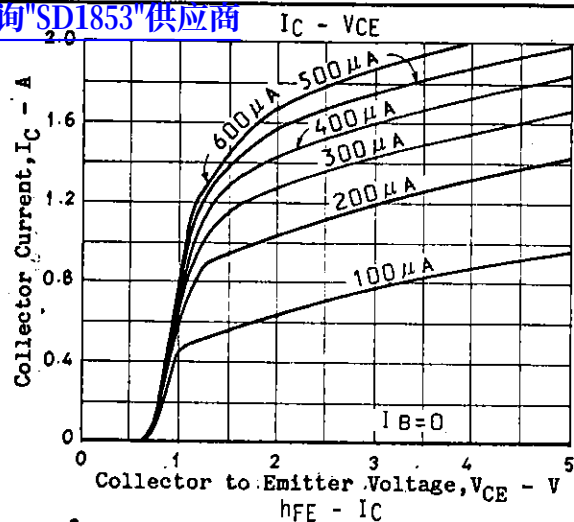
			min	typ	max	unit
Collector Cutoff Current	I_{CBO}	$V_{CB}=60\text{V}, I_E=0$			10	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB}=5\text{V}, I_C=0$			2.5	mA
DC Current Gain	$h_{FE}(1)$	$V_{CE}=2\text{V}, I_C=0.5\text{A}$	1000			
	$h_{FE}(2)$	$V_{CE}=2\text{V}, I_C=1\text{A}$	2000			
C-E Saturation Voltage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

Electrical Connection

$R1 \approx 5\text{k}\Omega$
 $R2 \approx 500\Omega$

Package Dimensions 2003A
(unit: mm)

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