



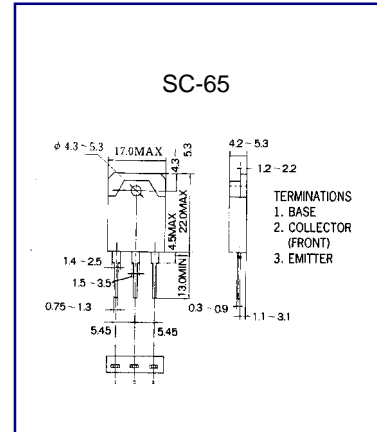
## 2SD1294

## NPN SILICON DARLINGTON TRANSISTOR

SWITCHING REGULATORS PWM INVERTERS  
SOLENOID AND RELAY DRIVERS

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

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	VCBO	60	V
Collector-Emitter Voltage	VCEO	60	V
Collector Current (DC)	IC	5	A
Collector Dissipation ( $T_c=25^\circ\text{C}$ )	PC	80	W
Junction Temperature	Tj	150	$^\circ\text{C}$
Storage Temperature	Tstg	-50~150	$^\circ\text{C}$



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

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Collector Cutoff Current	ICBO	V <sub>CB</sub> = 60V , I <sub>E</sub> =0			10	$\mu\text{A}$
Collector Cutoff Current	ICEO	V <sub>CB</sub> = 60V , I <sub>B</sub> =0			10	$\mu\text{A}$
DC Current Gain	hFE	V <sub>CE</sub> = 5V , I <sub>C</sub> =0.5A	2000		12000	
Collector- Emitter Saturation Voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> =0.5A , I <sub>B</sub> =0.001A			1.5	V