Silicon NPN Power Transistors 2SD546

DESCRIPTION

·With TO-66 package
·High breakdown voltage

APPLICATIONS

·Converters
·Inverters
·Switching regulators

PINNING(see Fig.2)

PIN	DESCRIPTION
1	Base
2	Emitter
3	Collector

Fig.1 simplified outline (TO-66) and symbol

Absolute maximum ratings(Ta=□)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V_{CBO}	Collector-base voltage	Open emitter	800	V
V_{CEO}	Collector-emitter voltage	Open base	500	V
V_{EBO}	Emitter-base voltage	Open collector	6	V
I_C	Collector current		1	A
P_C	Collector power dissipation	T_C=25□	30	W
T_j	Junction temperature		150	□
T_{stg}	Storage temperature		-55~150	□

CHARACTERISTICS

Tj=25□ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{CEO(SUS)}$	Collector-emitter sustaining voltage	I_C=30mA ;I_B=0	500			V
$V_{(BR)EBO}$	Emitter-base breakdown voltage	I_E=1mA ;I_C=0	6			V
V_{CEsat}	Collector-emitter saturation voltage	I_C=500mA; I_B=100mA			1.0	V
V_{BEsat}	Base-emitter saturation voltage	I_C=500mA; I_B=100mA			1.5	V
I_{CBO}	Collector cut-off current	V_{CB}=800V; I_E=0			0.1	mA
I_{EBO}	Emitter cut-off current	V_{EB}=6V; I_C=0			0.1	mA
h_{FE}	DC current gain	I_C=20mA ; V_{CE}=10V	40		200	
f_T	Transition frequency	I_C=0.1A ; V_{CE}=10V		7		MHz

PACKAGE OUTLINE

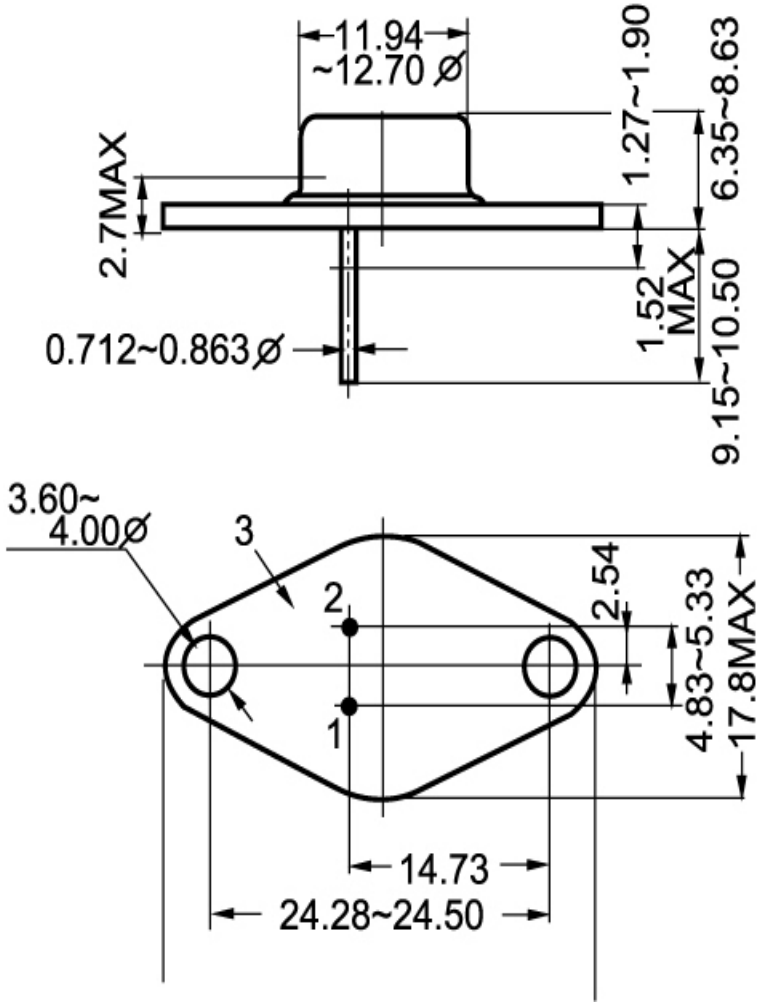

Fig.2 outline dimensions