

Silicon NPN Darlington Power Transistor

DESCRIPTION

- Low Collector Saturation Voltage
- High DC Current Gain
- High Reliability

APPLICATIONS

- Audio power amplifiers
- Relay & solenoid drivers
- Motor controls
- General purpose power amplifiers
- Including zener diode

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

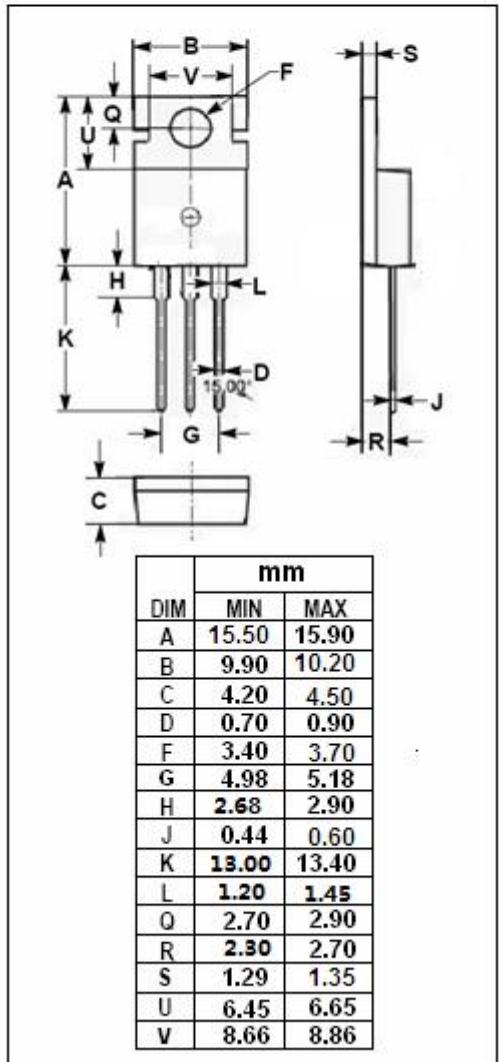
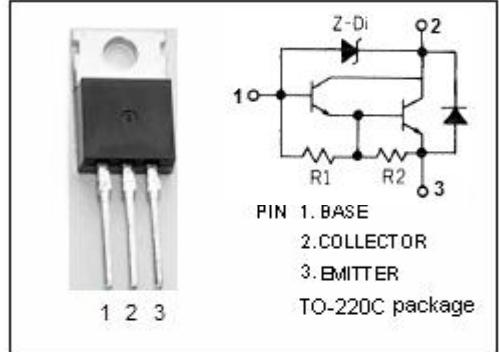
SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	450	V
$V_{CEO(\text{SUS})}$	Collector-Emitter Voltage	300	V
V_{EBO}	Emitter-Base Voltage	6	V
V_z	Zener Voltage	300	V
I_C	Collector Current-Continuous	6	A
I_B	Base Current-Continuous	2.5	A
P_c	Collector Power Dissipation @ $T_c=25^\circ\text{C}$	40	W
T_J	Junction Temperature	150	°C
T_{stg}	Storage Temperature Range	-40~150	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{\text{th j-c}}$	Thermal Resistance,Junction to Case	3.0	°C/W

Ordering Information

Product	Package	Packaging
2SD1071T1TL	TO-220C	Tube





2SD1071T1TL

ELECTRICAL CHARACTERISTICS

T_c=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _Z	Zener Voltage	I _Z = 0.1mA	300		450	V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 5mA; I _C = 0	6			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 4A; I _B = 15mA			1.5	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 4A; I _B = 15mA			2.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 300V; I _E = 0			0.1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 6V; I _C = 0			5	mA
h _{FE}	DC Current Gain	I _C = 4A; V _{CE} = 2V	500			

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