

isc Silicon NPN Power Transistor
2SC1295
DESCRIPTION

- With TO-3 Package
- High voltage
- Wide area of safe operation
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

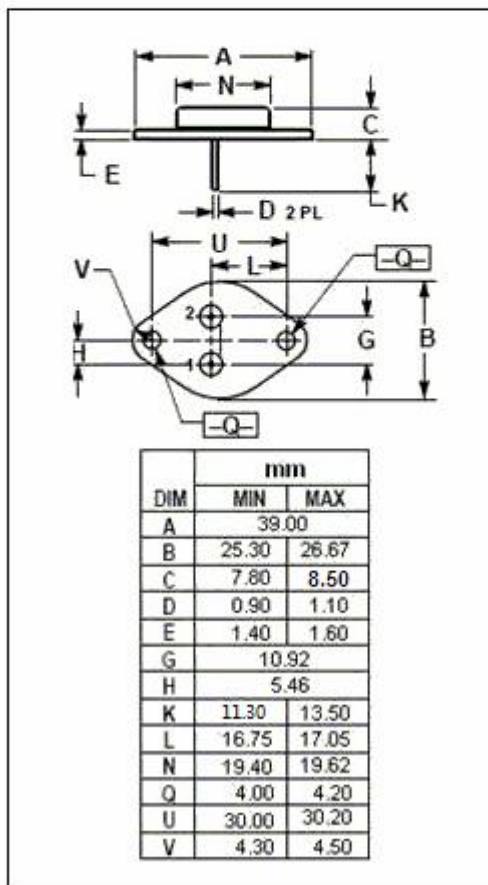
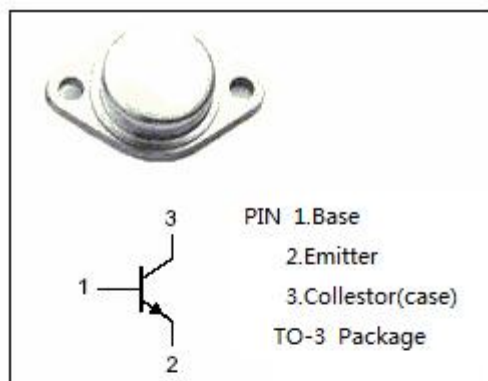
- For TV horizontal deflection output application

ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	1000	V
V _{CEO}	Collector-Emitter Voltage	350	V
V _{EBO}	Emitter-Base Voltage	5	V
I _C	Collector Current-Continuous	2	A
P _C	Collector Power Dissipation	40	W
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	3.125	°C/W



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ELECTRICAL CHARACTERISTICS
 $T_c=25^\circ\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C=2A; I_B= 1.0A$			5	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	$I_C=2A; I_B= 1.0A$			1.5	V
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	$I_C= 25mA; I_B= 0$	350			V
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	$I_E= 1mA; I_C= 0$	7			V
h_{FE}	DC Current Gain	$I_C=1.5A; V_{CE}= 5V$	3		13	
I_{CBO}	Collector Cutoff Current	$V_{CB}= 1000V ; I_E= 0$			100	μA
I_{EBO}	Emitter Cutoff Current	$V_{EB}= 5V; I_C= 0$			100	μA

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