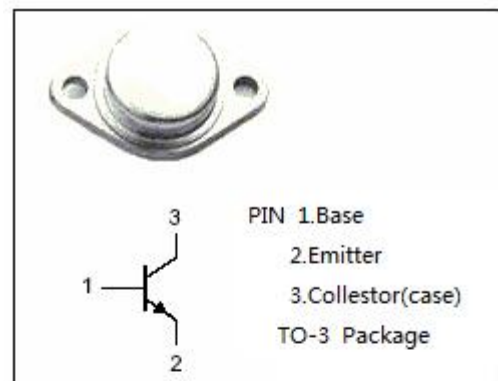


isc Silicon NPN Power Transistor
2SC1617
DESCRIPTION

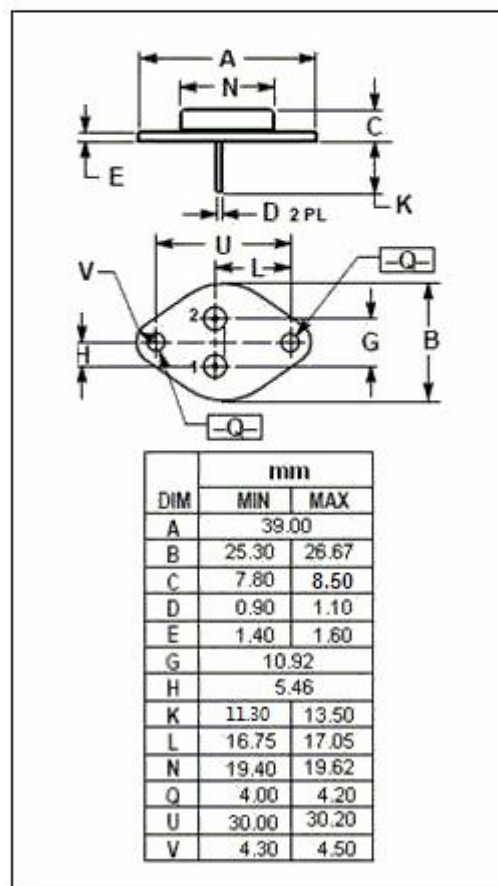
- Silicon NPN triple diffused type
- High voltage
- Wide area of safe operation
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Black and white TV horizontal output applications


ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	300	V
V _{CEO}	Collector-Emitter Voltage	100	V
V _{EBO}	Emitter-Base Voltage	5	V
I _c	Collector Current-Continuous	7	A
P _C	Collector Power Dissipation	50	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	2.5	°C/W

isc Silicon NPN Power Transistor
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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	$I_C=5A; I_B=0.5A$			1.0	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	$I_C=5A; I_B=0.5A$			1.5	V
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	$I_C=25mA; I_B=0$	100			V
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	$I_E=1mA; I_C=0$	5			V
h_{FE}	DC Current Gain	$I_C=1A; V_{CE}=5V$	30		150	
I_{CBO}	Collector Cutoff Current	$V_{CB}=250V; I_E=0$			1.0	mA
I_{EBO}	Emitter Cutoff Current	$V_{EB}=5V; I_C=0$			1.0	mA

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