

## isc Silicon NPN Power Transistor

2SC1586

## 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

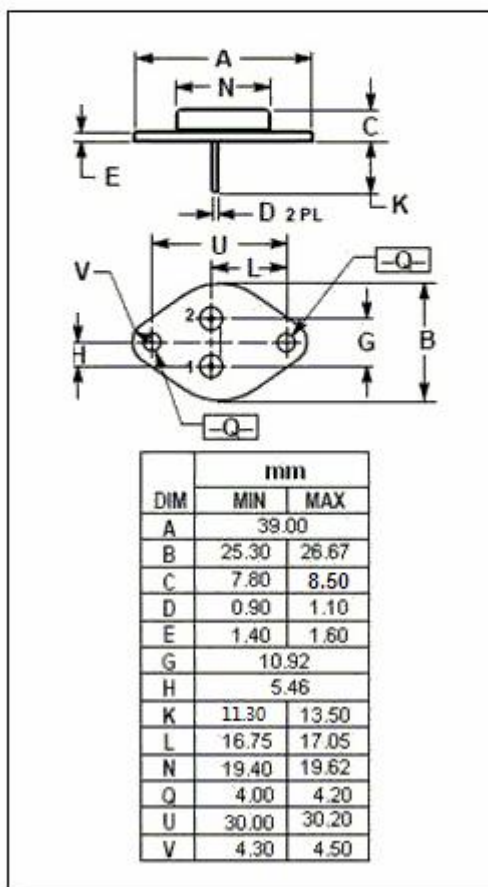
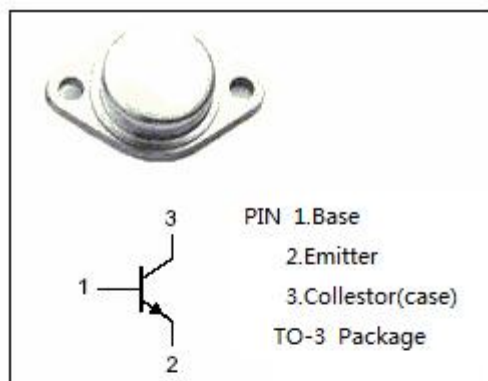
- Power amplifier applications

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

SYMBOL	PARAMETER	VALUE	UNIT
$V_{CBO}$	Collector-Base Voltage	200	V
$V_{CEO}$	Collector-Emitter Voltage	200	V
$V_{EBO}$	Emitter-Base Voltage	6	V
$I_C$	Collector Current-Continuous	15	A
$P_C$	Collector Power Dissipation	150	W
$T_J$	Junction Temperature	150	$^{\circ}\text{C}$
$T_{stg}$	Storage Temperature Range	-55~150	$^{\circ}\text{C}$

## THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	0.83	$^{\circ}\text{C/W}$



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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	$I_C=5A; I_B=0.5A$			2.0	V
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	$I_C=25mA; I_B=0$	200			V
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	$I_E=1mA; I_C=0$	6			V
$h_{FE}$	DC Current Gain	$I_C=5A; V_{CE}=4V$	60			
$I_{CBO}$	Collector Cutoff Current	$V_{CB}=200V; I_E=0$			100	$\mu A$
$I_{EBO}$	Emitter Cutoff Current	$V_{EB}=7V; I_C=0$			100	$\mu A$

## NOTICE:

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