

**isc Silicon PNP Power Transistor**
**2N3741A**
**DESCRIPTION**

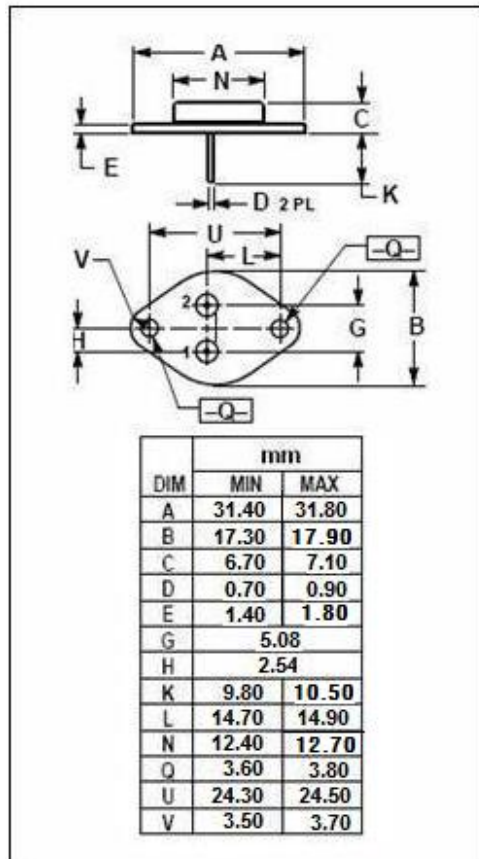
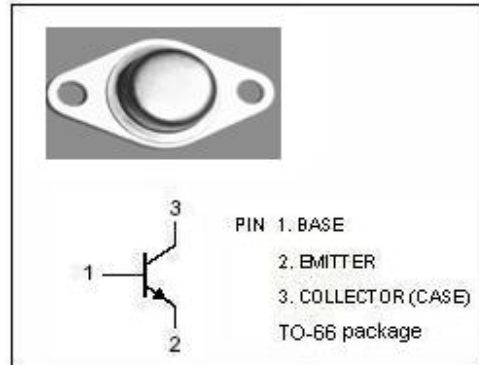
- Collector-Emitter Breakdown Voltage-  
:  $V_{CEO} = -80V$  (Min)
- Minimum Lot-to-Lot variations for robust device  
Performance and reliable operation

**APPLICATIONS**

- Power amplifier and switching applications

**ABSOLUTE MAXIMUM RATINGS ( $T_a = 25^\circ C$ )**

SYMBOL	PARAMETER	VALUE	UNIT
$V_{CBO}$	Collector-Base Voltage	-80	V
$V_{CEO}$	Collector-Emitter Voltage	-80	V
$V_{EBO}$	Emitter-Base Voltage	-7	V
$I_C$	Collector Current-Continuous	-4	A
$P_D$	Collector Power Dissipation @ $T_C = 25^\circ C$	25	W
$T_J$	Junction Temperature	-65~200	$^\circ C$
$T_{stg}$	Storage Temperature Range	-65~200	$^\circ C$



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

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	$I_C=-100\text{mA}$	-80			V
$I_{CBO}$	Collector-Base Cutoff Current	$V_{CB}=-80\text{V}$			-0.1	$\mu\text{A}$
$I_{CEO}$	Collector-Emitter Cutoff Current	$V_{CE}=-60\text{V}$			-1	$\mu\text{A}$
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C=-1\text{A}; I_B=-0.125\text{A}$			-0.6	V
$V_{BE(on)}$	Base-Emitter On Voltage	$I_C=-0.25\text{A}; V_{CE}=-1\text{V}$			-1	V
$h_{FE-1}$	DC Current Gain	$I_C=-100\text{mA}; V_{CE}=-1\text{V}$	40			
$h_{FE-2}$	DC Current Gain	$I_C=-250\text{mA}; V_{CE}=-1\text{V}$	30		100	
$h_{FE-3}$	DC Current Gain	$I_C=-500\text{mA}; V_{CE}=-1\text{V}$	20			
$h_{FE-4}$	DC Current Gain	$I_C=-1\text{A}; V_{CE}=-1\text{V}$	10			

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