

DESCRIPTION

- Continuous Collector Current- $I_C = -4A$
- Collector Power Dissipation-
: $P_C = 75W @ T_C = 25^\circ C$
- Complement to Type 2N3054A

APPLICATIONS

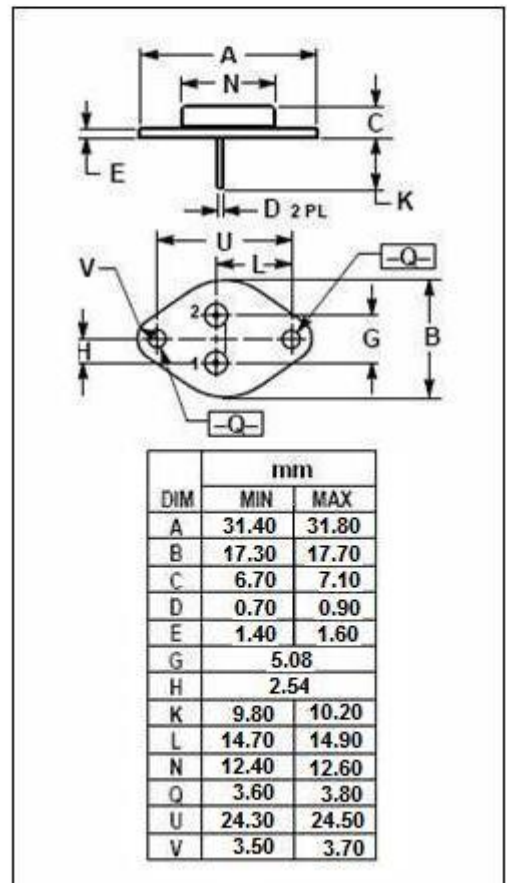
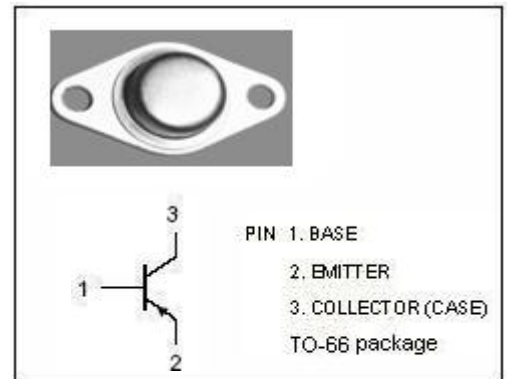
- Designed for general purpose switching and amplifier applications.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-90	V
V_{CER}	Collector-Emitter Voltage $R_{BE} = 100 \Omega$	-60	V
V_{CEO}	Collector-Emitter Voltage	-55	V
V_{EBO}	Emitter-Base Voltage	-7	V
I_C	Collector Current-Continuous	-4	A
I_B	Base Current-Continuous	-2	A
P_C	Collector Power Dissipation@ $T_C = 25^\circ C$	75	W
T_J	Junction Temperature	150	$^\circ C$
T_{stg}	Storage Temperature	-65~150	$^\circ C$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th(j-c)}$	Thermal Resistance, Junction to Case	2.33	$^\circ C/W$



ELECTRICAL CHARACTERISTICS

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

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
$V_{CE0(SUS)}$	Collector-Emitter Sustaining Voltage	$I_C = -50\text{mA}; I_B = 0$	-55		V
V_{CER}	Collector-Emitter Sustaining Voltage	$I_C = -100\text{mA}; R_{BE} = 100\ \Omega$	-60		V
$V_{CE(sat)-1}$	Collector-Emitter Saturation Voltage	$I_C = -0.5\text{A}; I_B = -50\text{mA}$		-0.5	V
$V_{CE(sat)-2}$	Collector-Emitter Saturation Voltage	$I_C = -4\text{A}; I_B = -0.8\text{A}$		-2.0	V
$V_{BE(on)}$	Base-Emitter On Voltage	$I_C = -0.5\text{A}; V_{CE} = -4\text{V}$		-1.0	V
I_{CEO}	Collector Cutoff Current	$V_{CE} = -30\text{V}; I_B = 0$		-0.5	mA
I_{CEX}	Collector Cutoff Current	$V_{CE} = -90\text{V}; V_{BE(off)} = -1.5\text{V}$ $V_{CE} = -90\text{V}; V_{BE(off)} = -1.5\text{V}, T_C = 150^\circ\text{C}$		-1.0 -6.0	mA
I_{EBO}	Emitter Cutoff Current	$V_{EB} = -7\text{V}; I_C = 0$		-1.0	mA
h_{FE-1}	DC Current Gain	$I_C = -0.5\text{A}; V_{CE} = -4\text{V}$	25	150	
h_{FE-2}	DC Current Gain	$I_C = -3\text{A}; V_{CE} = -4\text{V}$	6		
f_T	Current Gain-Bandwidth Product	$I_C = -0.2\text{A}; V_{CE} = -10\text{V}$	3		MHz