

DESCRIPTION

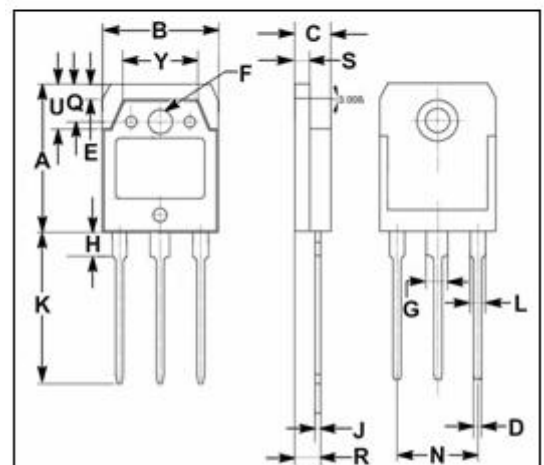
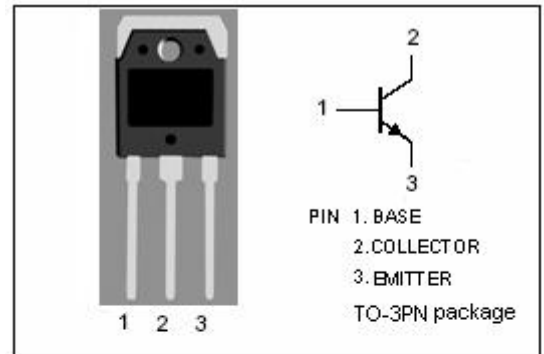
- Low Collector Saturation Voltage
: $V_{CE(sat)} = 0.5V(\text{Max}) @ I_C = 3A$
- Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = 120V (\text{Min})$
- Good Linearity of h_{FE}

APPLICATIONS

- Designed for use in humidifier , DC/DC converter and general purpose applications

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	200	V
V_{CEO}	Collector-Emitter Voltage	120	V
V_{EBO}	Emitter-Base Voltage	8	V
I_C	Collector Current-Continuous	7	A
I_{CM}	Collector Current-Pulse	14	A
I_B	Base Current-Continuous	3	A
P_C	Collector Power Dissipation @ $T_C = 25^\circ C$	70	W
T_J	Junction Temperature	150	$^\circ C$
T_{stg}	Storage Temperature Range	-55~150	$^\circ C$



DIM	mm	
	MIN	MAX
A	19.60	20.10
B	15.50	15.70
C	4.70	4.90
D	0.90	1.10
E	1.90	2.10
F	3.40	3.60
G	2.90	3.20
H	3.20	3.40
J	0.595	0.605
K	20.00	20.70
L	1.90	2.20
N	10.89	10.91
Q	4.90	5.10
R	3.35	3.45
S	1.995	2.100
U	5.90	6.10
Y	9.90	10.10

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	$I_C= 50\text{mA}$; $I_B= 0$	120			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C= 3\text{A}$; $I_B= 0.3\text{A}$			0.5	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	$I_C= 3\text{A}$; $I_B= 0.3\text{A}$			1.2	V
I_{CBO}	Collector Cutoff Current	$V_{CB}= 200\text{V}$; $I_E= 0$			100	μA
I_{EBO}	Emitter Cutoff Current	$V_{EB}= 8\text{V}$; $I_C= 0$			100	μA
h_{FE}	DC Current Gain	$I_C= 3\text{A}$; $V_{CE}= 4\text{V}$	70		220	
f_T	Current-Gain—Bandwidth Product	$I_E= 0.5\text{A}$; $V_{CE}= 12\text{V}$	20			MHz
C_{OB}	Output Capacitance	$I_E=0$; $V_{CB}=10\text{V}$; $f_{test}=1.0\text{MHz}$		110		pF

Switching times

t_{on}	Turn-on Time	$I_C= 3\text{A}$; $I_{B1}=0.3\text{A}$; $I_{B2}= -0.6\text{A}$ $R_L= 16.7\ \Omega$; $V_{CC}= 50\text{V}$			0.5	μs
t_{stg}	Storage Time				3.0	μs
t_f	Fall Time				0.5	μs

◆ **h_{FE} Classifications**

O	Y	G
70-120	100-200	160-220

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