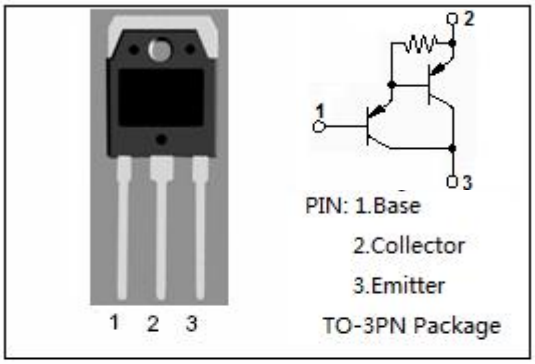
isc Silicon PNP Darlington Power Transistor KTB2510

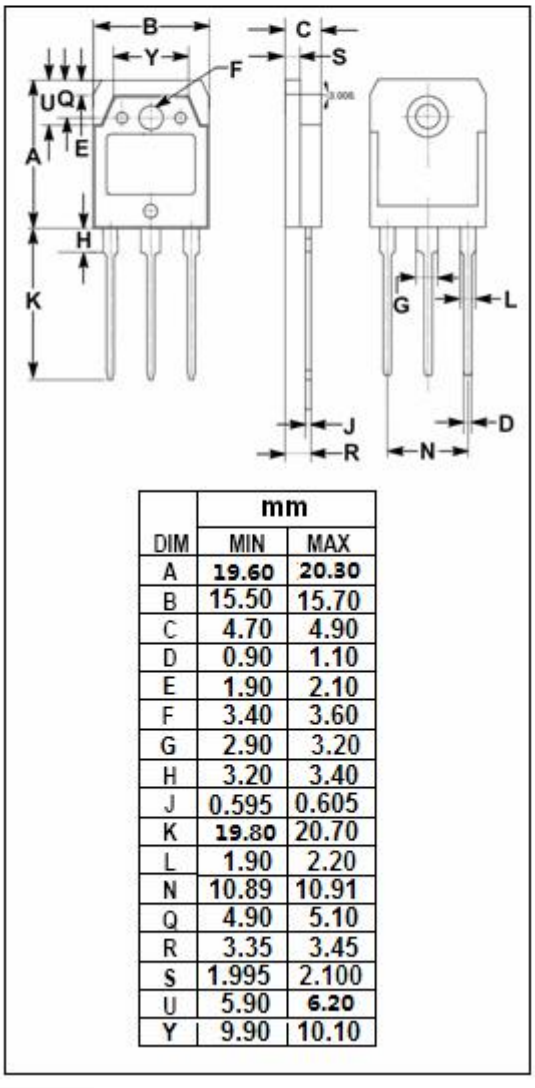


DESCRIPTION

- Collector-Emitter Breakdown Voltage-
  : $V_{(BR)CEO}$= -150V(Min)
- Collector-Emitter Saturation Voltage-
  : $V_{CE(sat)}$= -2.5V(Max) @I_C= -7A
- High DC Current Gain
  : h_{FE}= 5000(Min) @ I_C= -7A, V_{CE}= -4V
- Complement to Type KTD1510

APPLICATIONS

- High power amplifier applications
- Recommended for 60W audio amplifier output stage



DIM	mm MIN	mm MAX
A	19.60	20.30
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	19.80	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	6.20
Y	9.90	10.10

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-160	V
V_{CEO}	Collector-Emitter Voltage	-150	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-10	A
I_B	Base Current-Continuous	-1	A
P_C	Collector Power Dissipation @ T_C=25℃	100	W
T_J	Junction Temperature	150	℃
T_{stg}	Storage Temperature Range	-55~150	℃

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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	I_C= -30mA ; I_B= 0	-150			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	I_C= -7A; I_B= -7mA			-2.5	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	I_C= -7A; I_B= -7mA			-3	V
I_{CBO}	Collector Cutoff Current	V_{CB}= -160V; I_E= 0			-100	μA
I_{EBO}	Emitter Cutoff Current	V_{EB}= -5V; I_C= 0			-2	mA
h_{FE}	DC Current Gain	I_C= -7A ; V_{CE}= -4V	5000			
f_T	Current-Gain—Bandwidth Product	I_C= -2A; V_{CE}= -12V		50		MHz
C_{OB}	Output Capacitance	I_E= 0; V_{CB}= -10V;f_{test}= 1MHz		230		pF