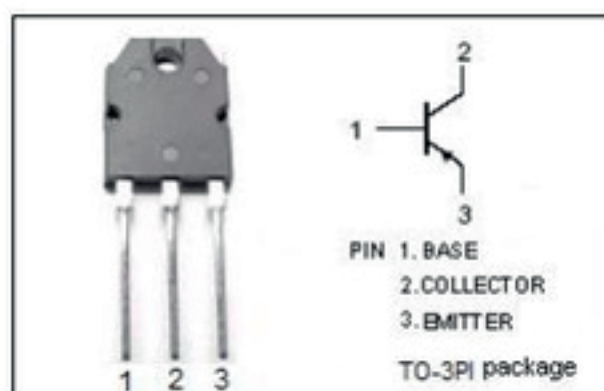


DESCRIPTION

- Low Collector Saturation Voltage-
: $V_{CE(sat)} = -2.0V(\text{Min}) @ I_C = -5A$
- Good Linearity of h_{FE}
- Complement to Type 2SC3180

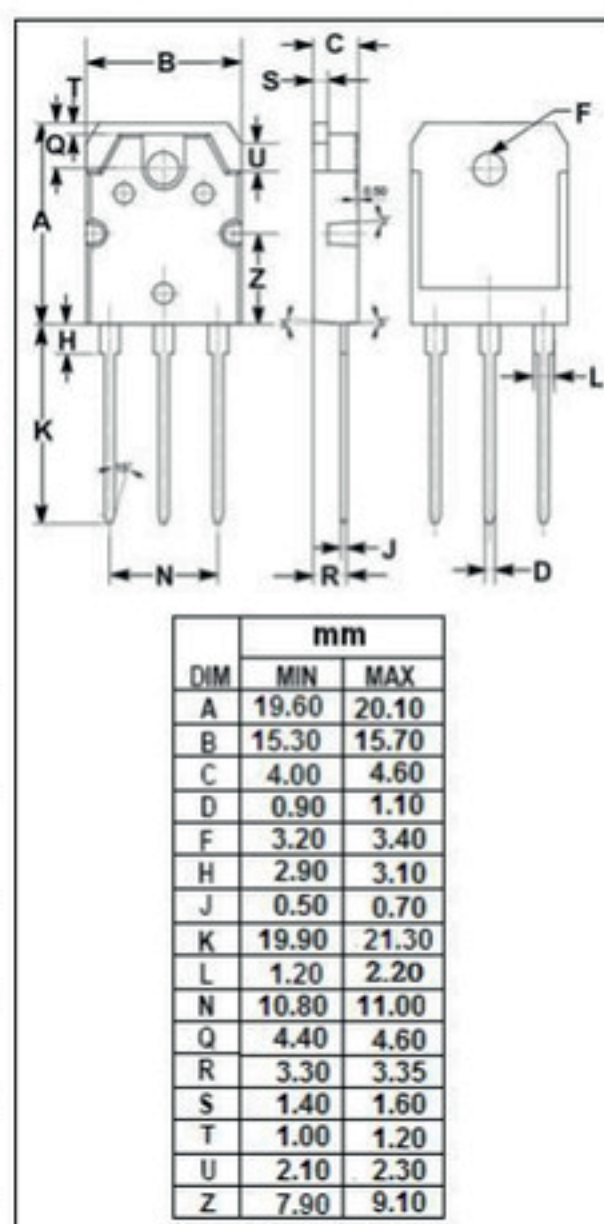
APPLICATIONS

- Power amplifier applications
- Recommend for 40W high fidelity audio frequency amplifier output stage applications



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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-80	V
V_{CEO}	Collector-Emitter Voltage	-80	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-6	A
I_B	Base Current-Continuous	-0.6	A
P_C	Collector Power Dissipation @ $T_C=25^\circ\text{C}$	60	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^\circ\text{C}$



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	$I_C = -50\text{mA}; I_B = 0$	-80			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C = -5A; I_B = -0.5A$			-2.0	V
$V_{BE(on)}$	Base-Emitter On Voltage	$I_C = -3A; V_{CE} = -5V$			-1.5	V
I_{CBO}	Collector Cutoff Current	$V_{CB} = -80V; I_E = 0$			-5	μA
I_{EBO}	Emitter Cutoff Current	$V_{EB} = -5V; I_C = 0$			-5	μA
h_{FE-1}	DC Current Gain	$I_C = -1A; V_{CE} = -5V$	55		160	
h_{FE-2}	DC Current Gain	$I_C = -3A; V_{CE} = -5V$	35			
C_{ob}	Output Capacitance	$I_E = 0; V_{CB} = -10V; f_{test} = 1.0\text{MHz}$		290		pF
f_T	Current-Gain—Bandwidth Product	$I_C = -1A; V_{CE} = -5V$		30		MHz

◆ **h_{FE-1} Classifications**

R	O
55-110	80-160