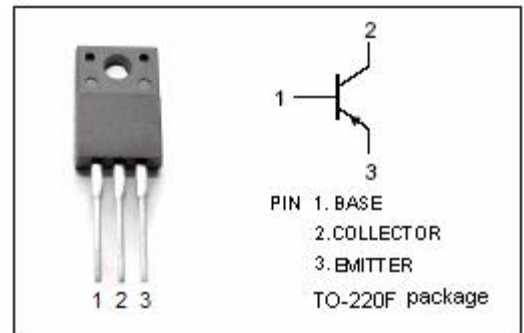


DESCRIPTION

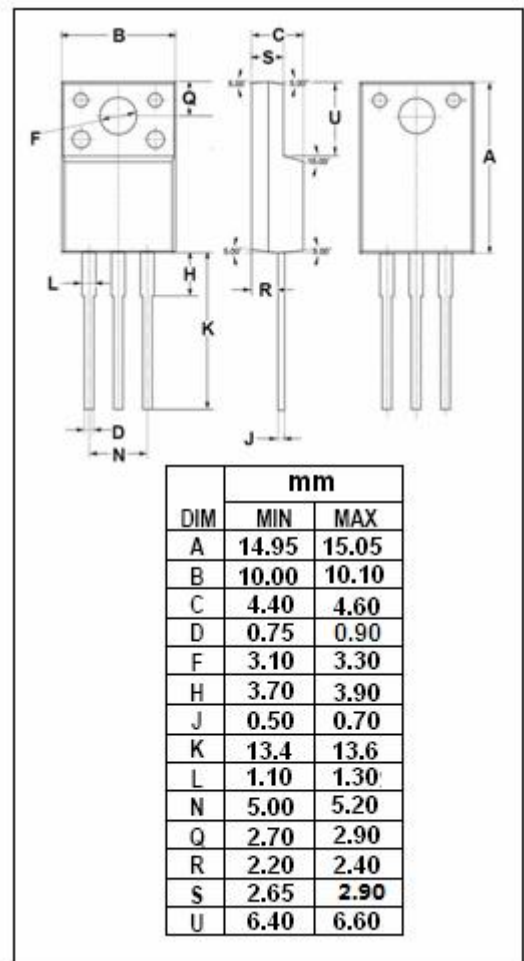
- High Collector Current: $I_C = -7A$
- Low Collector Saturation Voltage
: $V_{CE(sat)} = -0.5V(\text{Max}) @ I_C = -5A$
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for low-frequency power amplifiers and low speed switching 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	-60	V
V_{EBO}	Emitter-Base Voltage	-7	V
I_C	Collector Current-Continuous	-7	A
I_{CM}	Collector Current-Pulse	-15	A
I_B	Base Current-Continuous	-3.5	A
P_C	Total Power Dissipation @ $T_a = 25^\circ\text{C}$	2	W
	Total Power Dissipation @ $T_C = 25^\circ\text{C}$	30	
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^\circ\text{C}$



ELECTRICAL CHARACTERISTICST_c=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -5A; I _B = -0.5A			-0.5	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -5A; I _B = -0.5A			-1.5	V
I _{CB0}	Collector Cutoff Current	V _{CB} = -60V; I _E = 0			-10	μA
I _{EB0}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-10	μA
h _{FE-1}	DC Current Gain	I _C = -3A; V _{CE} = -1V	40		200	
h _{FE-2}	DC Current Gain	I _C = -5A; V _{CE} = -1V	20			

◆ **h_{FE-1} Classifications**

R	O	Y
40-80	60-120	100-200

Notice:

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