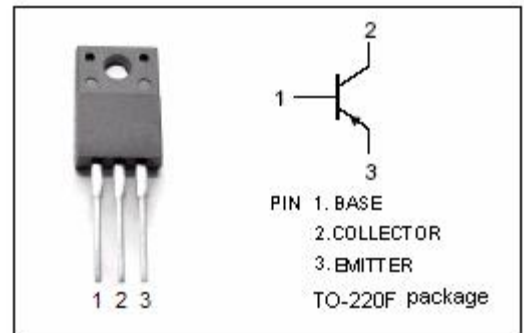


**DESCRIPTION**

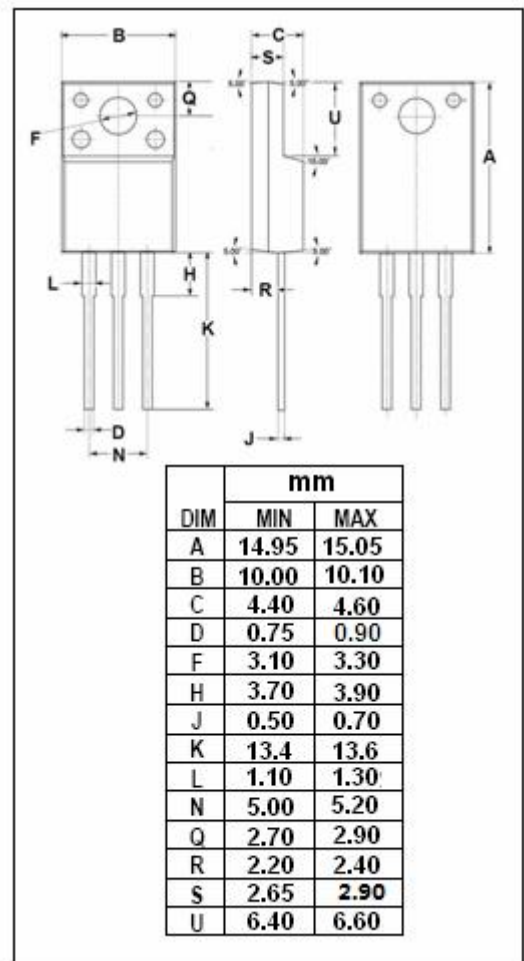
- High Collector Current:  $I_C = -7A$
- Low Collector Saturation Voltage  
:  $V_{CE(sat)} = -0.5V(\text{Max}) @ I_C = -5A$
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

**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 CHARACTERISTICS**T<sub>c</sub>=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = -5A; I <sub>B</sub> = -0.5A			-0.5	V
V <sub>BE(sat)</sub>	Base-Emitter Saturation Voltage	I <sub>C</sub> = -5A; I <sub>B</sub> = -0.5A			-1.5	V
I <sub>CB0</sub>	Collector Cutoff Current	V <sub>CB</sub> = -60V; I <sub>E</sub> = 0			-10	μA
I <sub>EB0</sub>	Emitter Cutoff Current	V <sub>EB</sub> = -5V; I <sub>C</sub> = 0			-10	μA
h <sub>FE-1</sub>	DC Current Gain	I <sub>C</sub> = -3A; V <sub>CE</sub> = -1V	40		200	
h <sub>FE-2</sub>	DC Current Gain	I <sub>C</sub> = -5A; V <sub>CE</sub> = -1V	20			

◆ **h<sub>FE-1</sub> Classifications**

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

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