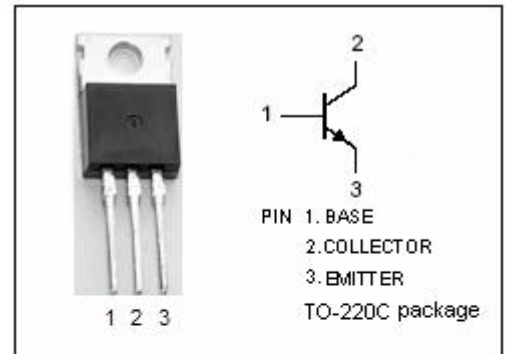


DESCRIPTION

- DC Current Gain Specified to 15 Amperes-
 : $h_{FE} = 20-150 @ I_C = 5.0A$
 = 5.0(Min) @ $I_C = 15A$
- Collector-Emitter Sustaining Voltage-
 : $V_{CEO(SUS)} = 40V(Min)$
- Complement to Type 2N6489

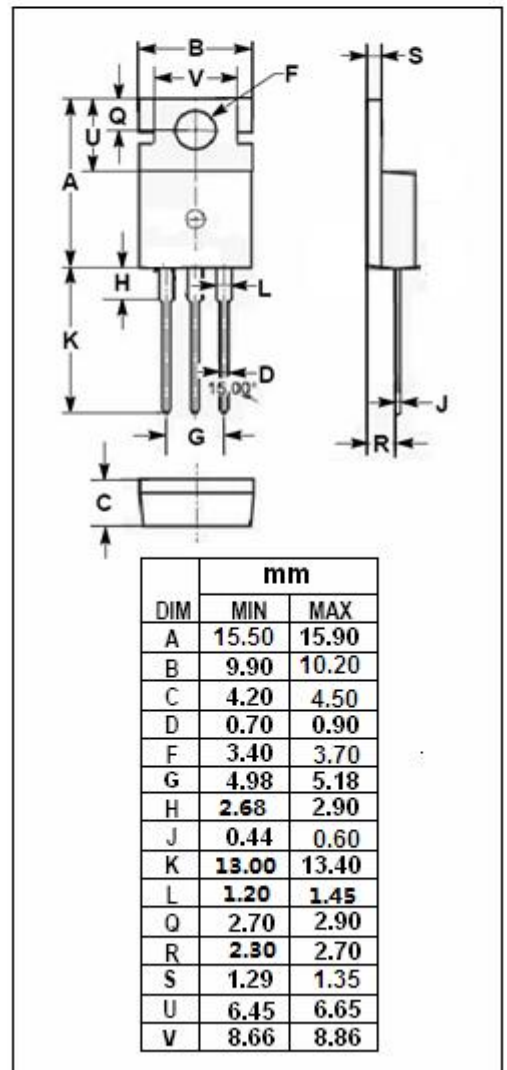
APPLICATIONS

- Designed for use in general-purpose amplifier and switching applications



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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	50	V
V_{CEO}	Collector-Emitter Voltage	40	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current-Continuous	15	A
I_B	Base Current	5	A
P_C	Collector Power Dissipation @ $T_C = 25^\circ C$	57	W
	Collector Power Dissipation @ $T_a = 25^\circ C$	1.8	
T_J	Junction Temperature	150	$^\circ C$
T_{stg}	Storage Temperature Range	-65~150	$^\circ C$



THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R_{th-j-c}	Thermal Resistance, Junction to Case	1.67	$^\circ C/W$

ELECTRICAL CHARACTERISTICS

$T_C=25^{\circ}\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
$V_{CEO(SUS)}$	Collector-Emitter Sustaining Voltage	$I_C=50\text{mA}; I_B=0$	40		V
$V_{CE(sat)-1}$	Collector-Emitter Saturation Voltage	$I_C=5\text{A}; I_B=0.5\text{A}$		1.3	V
$V_{CE(sat)-2}$	Collector-Emitter Saturation Voltage	$I_C=15\text{A}; I_B=5.0\text{A}$		3.5	V
$V_{BE(on)-1}$	Base-Emitter On Voltage	$I_C=5\text{A}; V_{CE}=4\text{V}$		1.3	V
$V_{BE(on)-2}$	Base-Emitter On Voltage	$I_C=15\text{A}; V_{CE}=4\text{V}$		3.5	V
I_{CEO}	Collector Cutoff Current	$V_{CE}=20\text{V}; I_B=0$		1.0	mA
I_{EBO}	Emitter Cutoff Current	$V_{EB}=5\text{V}; I_C=0$		1.0	mA
h_{FE-1}	DC Current Gain	$I_C=5\text{A}; V_{CE}=4\text{V}$	20	150	
h_{FE-2}	DC Current Gain	$I_C=15\text{A}; V_{CE}=4\text{V}$	5		
f_T	Current-Gain—Bandwidth Product	$I_C=1.0\text{A}; V_{CE}=4\text{V}, f_{test}=1.0\text{MHz}$	5.0		MHz