

## DESCRIPTION

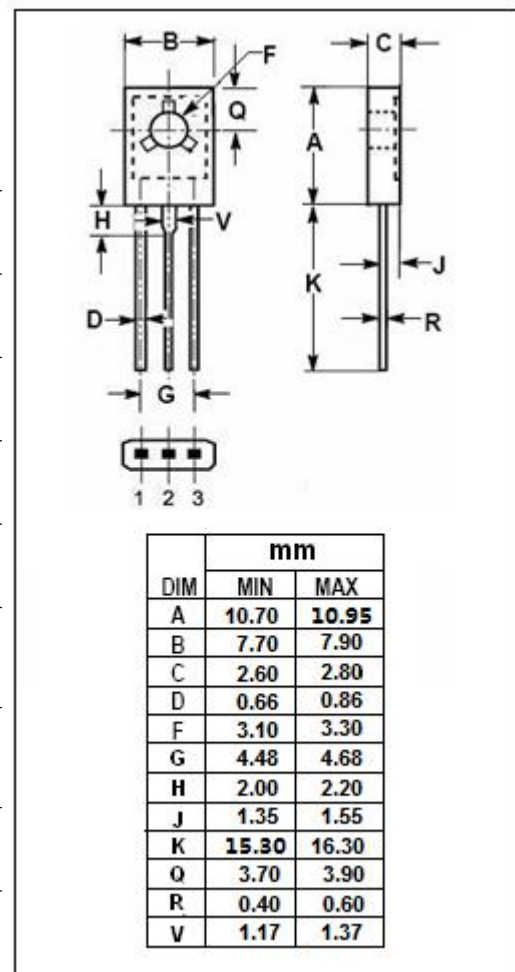
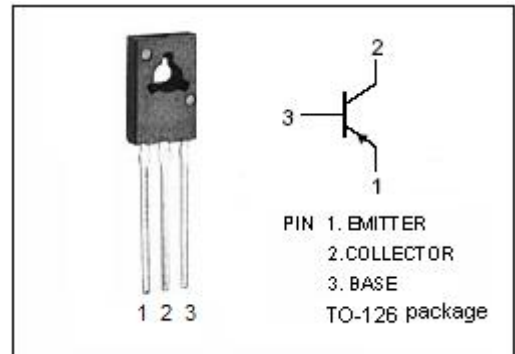
- Low Collector Saturation Voltage
- High voltage
- High speed switching
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

## APPLICATIONS

- High voltage switching
- Low power switching regulator
- DC-DC converter

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

SYMBOL	PARAMETER	VALUE	UNIT
$V_{CBO}$	Collector-Base Voltage	-120	V
$V_{CEO}$	Collector-Emitter Voltage	-120	V
$V_{EBO}$	Emitter-Base Voltage	-5	V
$I_C$	Collector Current-Continuous	-1.2	A
$P_C$	Total Power Dissipation @ $T_a=25^{\circ}\text{C}$	1.2	w
	Total Power Dissipation @ $T_c=25^{\circ}\text{C}$	20	W
$T_J$	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> = -1A; I <sub>B</sub> = -200mA			-0.7	V
V <sub>BE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = -1A; I <sub>B</sub> = -200mA			-1.3	V
I <sub>CBO</sub>	Collector Cutoff Current	V <sub>CB</sub> = -120V; I <sub>E</sub> = 0			-1	μ A
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> = -3V; I <sub>C</sub> = 0			-1	μ A
h <sub>FE</sub>	DC Current Gain	I <sub>C</sub> = -300mA ; V <sub>CE</sub> = -5V	60		320	

**◆ h<sub>FE</sub> Classifications**

R	O	Y
60-120	100-200	160-320

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