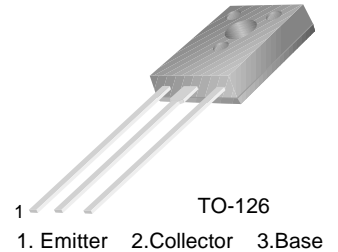


**■ ■ APPLICATION:** Switching Applications.

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

PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	$V_{CBO}$	40	V
Collector-emitter voltage	$V_{CEO}$	20	V
Emitter-base voltage	$V_{EBO}$	6	V
Collector current	$I_C$	5	A
Power Dissipation	$P_C$	1	W
Junction Temperature	$T_J$	150	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	-55~150	$^\circ\text{C}$


**■ ■ ELECTRICAL CHARACTERISTICS** ( $T_a=25^\circ\text{C}$ )

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Common Emitter DC Current Gain	$h_{FE1}$	120		560		$V_{CE}=2\text{V}, I_C=0.5\text{A}$
Common Emitter DC Current Gain	$h_{FE2}$	95				$V_{CE}=2\text{V}, I_C=3\text{A(Plause)}$
Collector Cut-off Current	$I_{CBO}$			1	$\mu\text{A}$	$V_{CB}=30\text{V}, I_E=0$
Emitter Cut-off Current	$I_{EBO}$			1	$\mu\text{A}$	$V_{EB}=5\text{V}, I_C=0$
Collector-Base Breakdown Voltage	$BV_{CBO}$	40			V	$I_C=1\text{mA}, I_E=0$
Collector-Emitter Breakdown Voltage	$BV_{CEO}$	20			V	$I_C=10\text{mA}, I_B=0$
Emitter-Base Breakdown Voltage	$BV_{EBO}$	6			V	$I_E=1\text{mA}, I_C=0$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$			0.5	V	$I_C=3\text{A}, I_B=60\text{mA}$
Base-Emitter Saturation Voltage	$V_{BE(sat)}$			1.5	V	$I_C=3\text{A}, I_B=60\text{mA}$
Gain bandwidth product	$f_T$		120		MHz	$I_C=50\text{mA}, V_{CE}=10\text{V}$
Output Capacitance	$C_{ob}$		45		PF	$V_{CB}=10\text{V}, I_E=0, f=1\text{MHz}$

**■ ■ hFE Classification And Marking**

Mark	D826		
Classification	E	F	G
$h_{FE1}$	120-200	160-320	280-560