

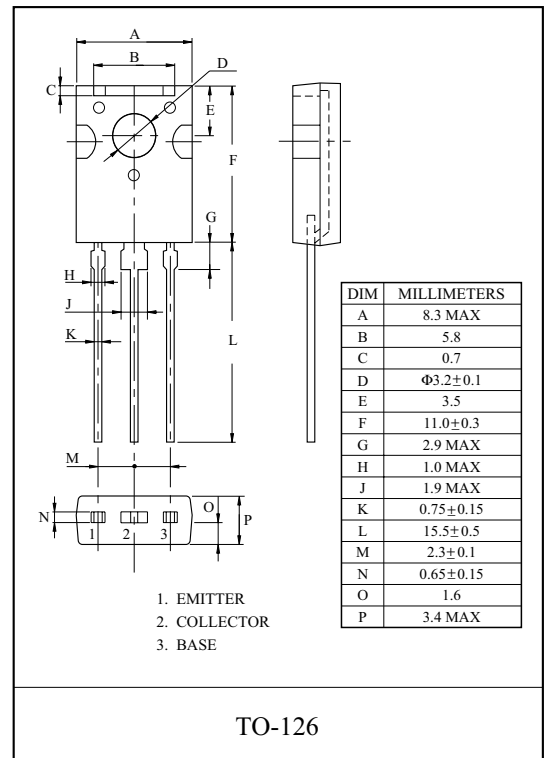
GENERAL PURPOSE APPLICATION.

### FEATURES

- High Current. (Max. : 1.5A)
- Low Voltage (Max. : 45V)
- DC Current Gain :  $h_{FE}=40$ Min. @ $I_C=0.15A$
- Complementary to BD136.

### MAXIMUM RATING (Ta=25 °C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	$V_{CBO}$	45	V
Collector-Emitter Voltage	$V_{CEO}$	45	V
Emitter-Base Voltage	$V_{EBO}$	5	V
Collector Current	$I_C$	1.5	A
Base Current	$I_B$	0.5	A
Collector Power Dissipation	$P_C$	Ta=25 °C	1.25
		Tc=25 °C	10
Junction Temperature	$T_j$	150	°C
Storage Temperature Range	$T_{stg}$	-55 ~ 150	°C



### ELECTRICAL CHARACTERISTICS (Ta=25 °C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	$I_{CBO}$	$V_{CB}=30V, I_E=0$	-	-	0.1	$\mu A$
Emitter Cut-off Current	$I_{EBO}$	$V_{EB}=5V, I_C=0$	-	-	10	$\mu A$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=30mA, I_B=0$	45	-	-	V
DC Current Gain	$h_{FE} (1)$	$I_C=5mA, V_{CE}=2V$	25	-	-	
	$h_{FE} (2)$	$I_C=150mA, V_{CE}=2V$	40	-	250	
	$h_{FE} (3)$	$I_C=500mA, V_{CE}=2V$	25	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=500mA, I_B=50mA$	-	-	0.5	V
Base-Emitter Voltage	$V_{BE}$	$V_{CE}=2V, I_C=500mA$	-	-	1.0	V
Transition Frequency	$f_T$	$V_{CE}=5V, I_C=50mA$	-	190	-	MHz