

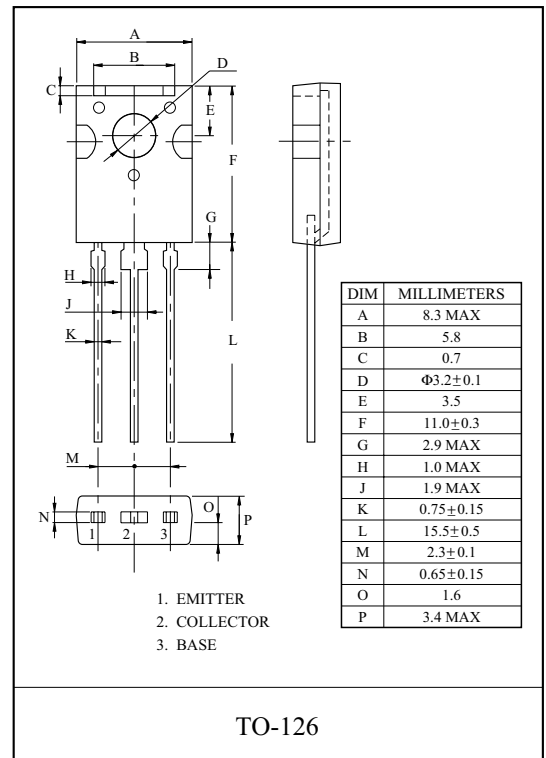
GENERAL PURPOSE APPLICATION.

FEATURES

- High Current. (Max. : -1.5A)
- Low Voltage (Max. : -45V)
- DC Current Gain : $h_{FE}=40$ Min. @ $I_C=-0.15A$
- Complementary to BD135.

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	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=-5V, I_C=0$	-	-	-10	μA
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	$V_{CE}=-5V, I_C=-50mA$	-	160	-	MHz