

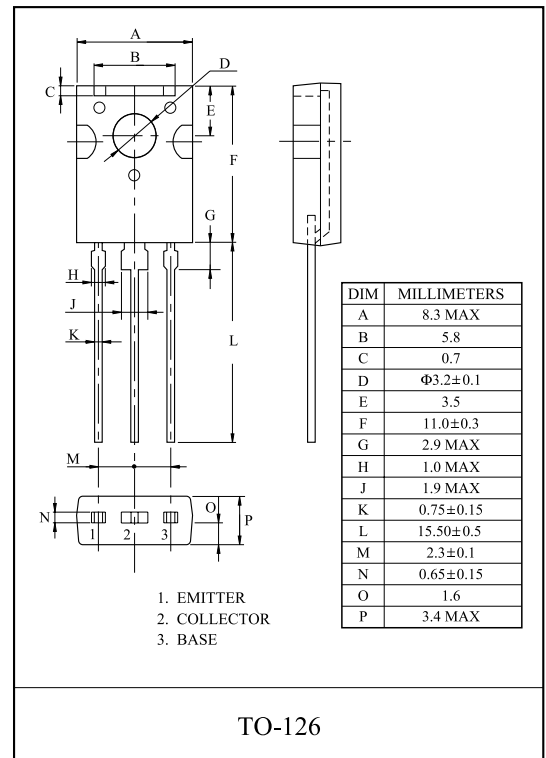
AUDIO AMPLIFIER, VOLTAGE REGULATOR
DC-DC CONVERTER, RELAY DRIVER

FEATURES

- Low Saturation Voltage.
: $V_{CE(sat)} = -0.8V$ ($I_C = -2A, I_B = -0.2A$)
- Excellent h_{FE} Linearity and high h_{FE} .
: $h_{FE} = 70 \sim 240$ ($V_{CE} = -2V, I_C = -0.5A$)
- Complementary to KTC2804.

MAXIMUM RATING (Ta=25 °C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		V_{CBO}	-30	V
Collector-Emitter Voltage		V_{CEO}	-30	V
Emitter-Base Voltage		V_{EBO}	-5	V
Collector Current	DC	I_C	-3	A
Emitter Current		I_E	3	A
Collector Power Dissipation	Ta=25 °C	P_C	0.5	W
	Tc=5 °C	P_C	0.5	W
Junction Temperature		T_j	150	°C
Storage Temperature Range		T_{stg}	-55 ~ 150	°C



ELECTRICAL CHARACTERISTICS (Ta=25 °C)

CHARACTERISTIC	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB} = -20V, I_E = 0$	-	-	-1.0	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB} = -5.0V, I_C = 0$	-	-	-1.0	μA
DC Current Gain	$h_{FE(1)}$ (Note)	$V_{CE} = -2.0V, I_C = -0.5A$	70	-	240	
	$h_{FE(2)}$	$V_{CE} = -2.0V, I_C = -2.5A$	25	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -2.0A, I_B = -0.2A$	-	-0.3	-0.8	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = -2A, I_B = -0.5A$	-	-0.75	-1.0	V
Gain Bandwidth Product	f_T	$V_{CE} = -2V, I_C = -0.5A$	-	100	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = -10V, I_E = 0, f = 1MHz$	-	40	-	pF

Note : $h_{FE(1)}$ Classification O:70 ~ 140 , Y:120 ~ 240

