

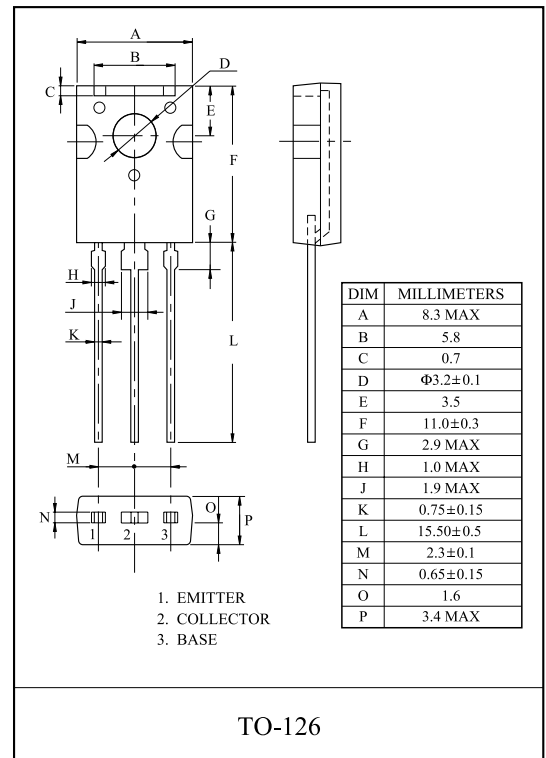
AUDIO AMPLIFIER, VOLTAGE REGULATOR  
DC-DC CONVERTER, RELAY DRIVER

### FEATURES

- Low Saturation Voltage.  
:  $V_{CE(sat)}$  0.8V ( $I_C=2A, I_B=0.2A$ )
- Excellent  $h_{FE}$  Linearity and high  $h_{FE}$ .  
:  $h_{FE}$ :70 240 ( $V_{CE}=2V, I_C=0.5A$ )
- Complementary to KTA1705.

### MAXIMUM RATING ( $T_a=25$ )

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	$T_a=25$	$P_C$	1.5	W
	$T_c=25$	$P_C$	10	
Junction Temperature		$T_j$	150	
Storage Temperature Range		$T_{stg}$	-55 150	



### ELECTRICAL CHARACTERISTICS ( $T_a=25$ )

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	$I_{CBO}$	$V_{CB}=20V, I_E=0$	-	-	1.0	$\mu A$
Emitter Cut-off Current	$I_{EBO}$	$V_{EB}=5.0V, I_C=0$	-	-	1.0	$\mu A$
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	$V_{BE}$	$V_{CE}=2.0V, I_C=0.5A$	-	0.75	1.0	V
Gain Bandwidth Product	$f_T$	$V_{CE}=2V, I_C=0.5A$	-	100	-	MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB}=10V, I_E=0, f=1MHz$	-	35	-	pF

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

# KTC2804

