

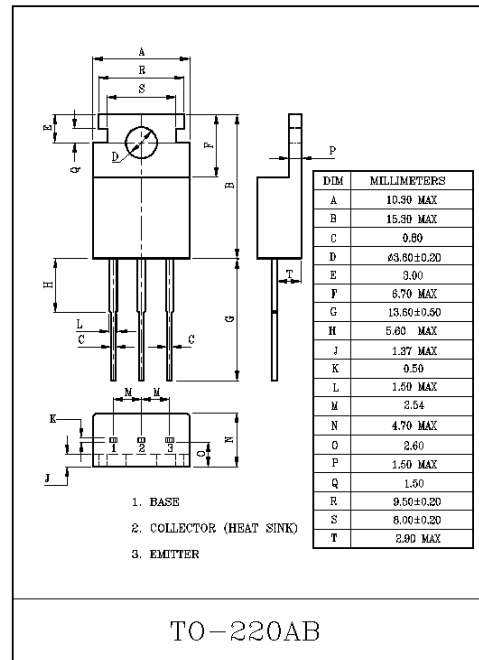
GENERAL PURPOSE APPLICATION.

FEATURES

- Complementary to TIP41C.

MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		V_{CBO}	-100	V
Collector-Emitter Voltage		V_{CEO}	-100	V
Emitter-Base Voltage		V_{EBO}	-5	V
Collector Current	DC	I_C	-6	A
	Pulse	I_{CP}	-10	
Base Current		I_B	-2	A
Collector Power Dissipation	(Ta=25°C)	P_C	2	W
	(Tc=25°C)		65	
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 Emitter Sustaining Voltage	$V_{CEO(SUS)}$	$I_C = -30mA, I_B = 0$	-100	-	-	V
Collector Cut-off Current	I_{CEO}	$V_{CE} = -60V, I_B = 0$	-	-	-0.7	mA
Collector Cut-off Current	I_{CES}	$V_{CE} = -100V, V_{EB} = 0$	-	-	-400	μA
Emitter Cut-off Current	I_{EBO}	$V_{BE} = -5V, I_C = 0$	-	-	-1	mA
DC Current Gain	h_{FE}	$V_{CE} = -4V, I_C = -0.3A$	30	-	-	
		$V_{CE} = -4V, I_C = -3A$	15	-	75	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -6A, I_B = -600mA$	-	-	-1.5	V
Base-Emitter On Voltage	$V_{BE(on)}$	$V_{CE} = -4V, I_C = -6A$	-	-	-2.0	V
Transition Frequency	f_T	$V_{CE} = -10V, I_C = -500mA$ $f = 1MHz$	3.0	-	-	MHz

TIP42C

