

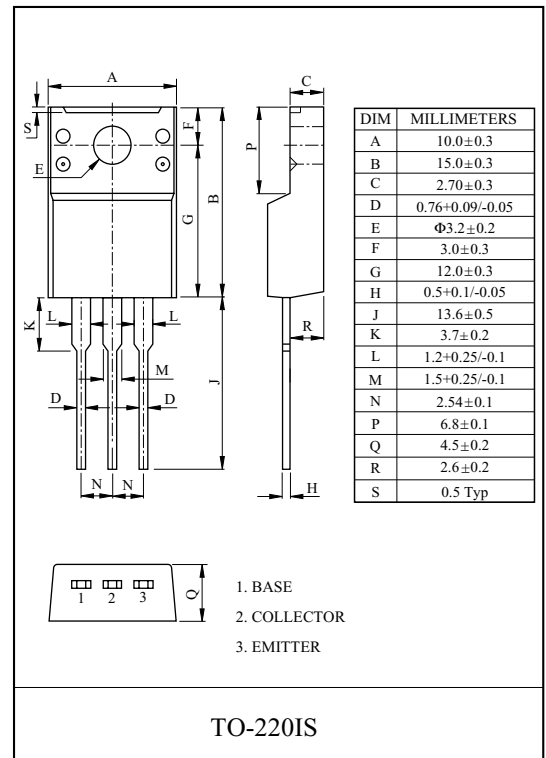
GENERAL PURPOSE APPLICATION.

FEATURES

- Complementary to KTB1367.

MAXIMUM RATING (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	I _C	5	A
Base Current	I _B	0.5	A
Collector Power Dissipation (Tc=25 °C)	P _C	30	W
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} =100V, I _E =0	-	-	100	μA
Emitter Cut-off Current	I _{EBO}	V _{EB} =5V, I _C =0	-	-	1.0	mA
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	I _C =50mA, I _B =0	100	-	-	V
DC Current Gain	h _{FE} (1) (Note)	V _{CE} =5V, I _C =1A	40	-	240	
	h _{FE} (2)	V _{CE} =5V, I _C =4A	20	-	-	
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C =4A, I _B =0.4A	-	-	2.0	V
Base-Emitter Voltage	V _{BE}	V _{CE} =5V, I _C =1A	-	-	1.5	V
Transition Frequency	f _T	V _{CE} =5V, I _C =1A	-	12	-	MHz
Collector Output Capacitance	C _{ob}	V _{CB} =10V, I _E =0, f=1MHz	-	100	-	pF

Note : h_{FE}(1) Classification R:40~80, O:70~140, Y:120~240

