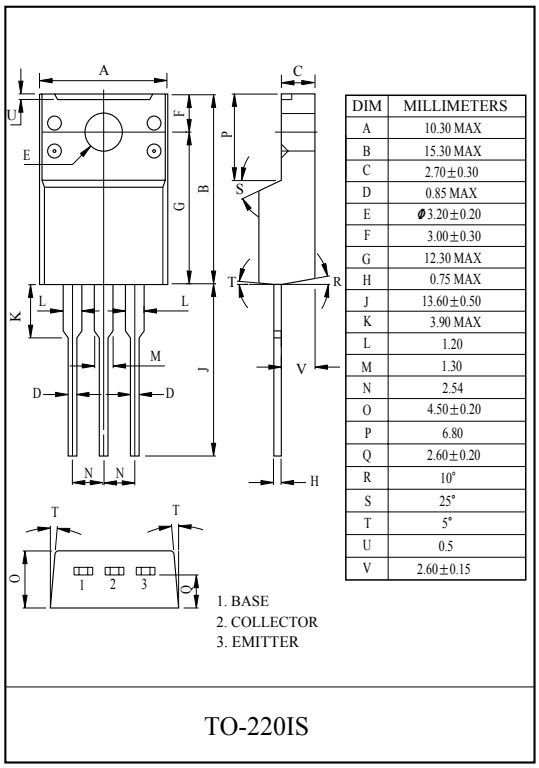
NDUSTRIAL USE.
GENERAL PURPOSE APPLICATION.

FEATURES

· Low Collector Saturation Voltage
: $V_{CE(sat)}$=-1.0V(Max.) at I_C=-2A, I_B=-0.2A.
· Complementary to KTC2026.



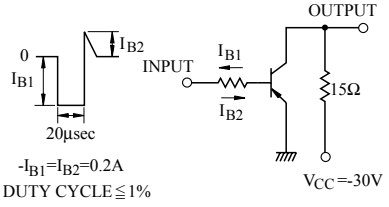
DIM	MILLIMETERS
A	10.30 MAX
B	15.30 MAX
C	2.70±0.30
D	0.85 MAX
E	Ø3.20±0.20
F	3.00±0.30
G	12.30 MAX
H	0.75 MAX
J	13.60±0.50
K	3.90 MAX
L	1.20
M	1.30
N	2.54
O	4.50±0.20
P	6.80
Q	2.60±0.20
R	10°
S	25°
T	5°
U	0.5
V	2.60±0.15

TO-220IS

MAXIMUM RATING (Ta=25℃)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		V_{CBO}	-60	V
Collector-Emitter Voltage		V_{CEO}	-60	V
Emitter-Base Voltage		V_{EBO}	-7	V
Collector Current		I_C	-3	A
Base Current		I_B	-0.5	A
Collector Power Dissipation	Ta=25℃	P_C	2	W
	Tc=25℃		20	
Junction Temperature		T_j	150	℃
Storage Temperature Range		T_{stg}	-55～150	℃

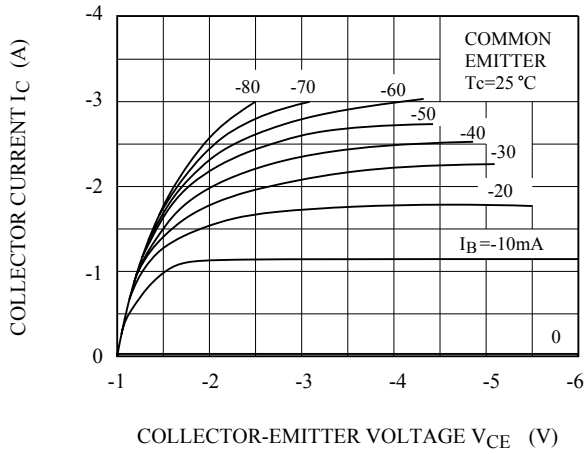
ELECTRICAL CHARACTERISTICS (Ta=25℃)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current		I_{CBO}	V_{CB}=-60V, I_E=0	-	-	-100	μA
Emitter Cut-off Current		I_{EBO}	V_{EB}=-7V, I_C=0	-	-	-100	μA
Collector-Emitter Breakdown Voltage		$V_{(BR)CEO}$	I_C=-50mA, I_B=0	-60	-	-	V
DC Current Gain		h_{FE}(1) (Note)	V_{CE}=-5V, I_C=-0.5A	100	-	300	
		h_{FE}(2)	V_{CE}=-5V, I_C=-3A	20	-	-	
Collector Emitter Saturation Voltage		$V_{CE(sat)}$	I_C=-2A, I_B=-0.2A	-	-0.25	-1.0	V
Base-Emitter Voltage		V_{BE}	V_{CE}=-5V, I_C=-0.5A	-	-0.7	-1.0	V
Transition Frequency		f_T	V_{CE}=-5V, I_C=-0.5A	-	30	-	MHz
Collector Output Capacitance		C_{ob}	V_{CB}=-10V, I_E=0, f=1MHz	-	45	-	pF
Switching Time	Turn-on Time	t_{on}		-	0.4	-	μS
	Storage Time	t_{stg}		-	1.7	-	
	Fall Time	t_f		-	0.5	-	

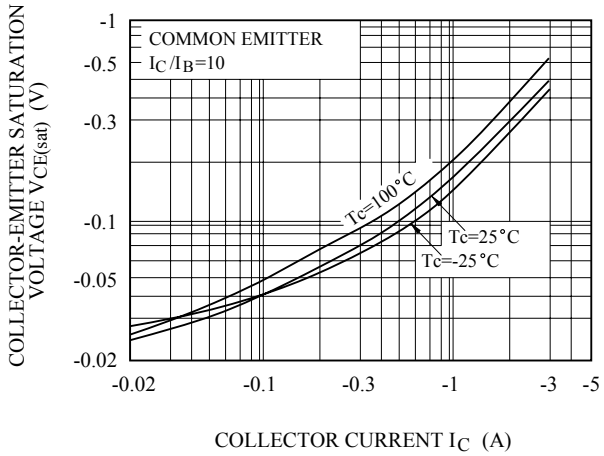
$-I_{B1}=I_{B2}=0.2A$
DUTY CYCLE≦1%

Note : h_{FE}(1) Classification Y:100～200, GR:150～300

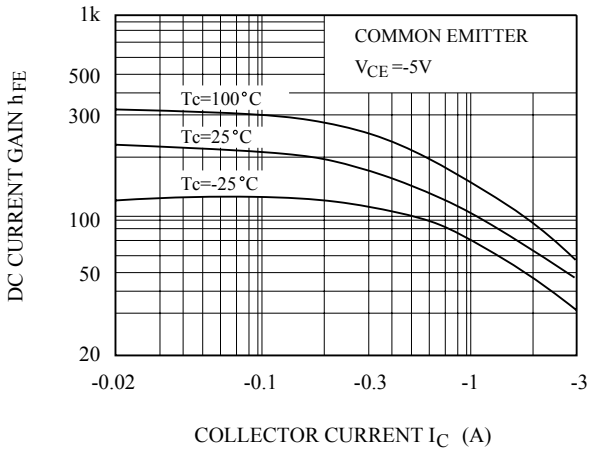
I_C - V_{CE}



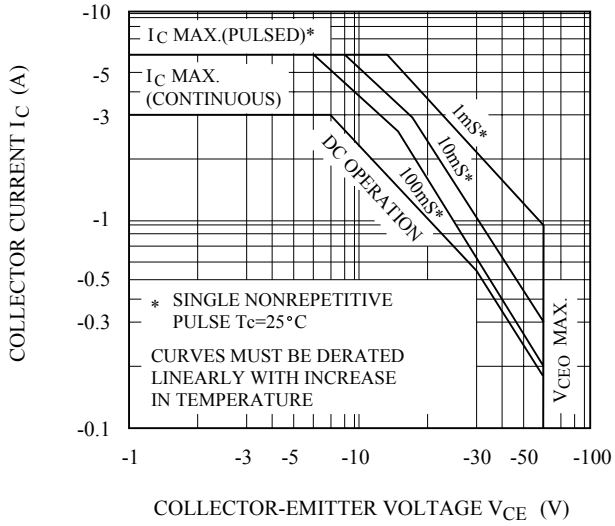
$V_{CE(sat)}$ - I_C



h_{FE} - I_C



SAFE OPERATING AREA



$R_{th(t)}$ - t