

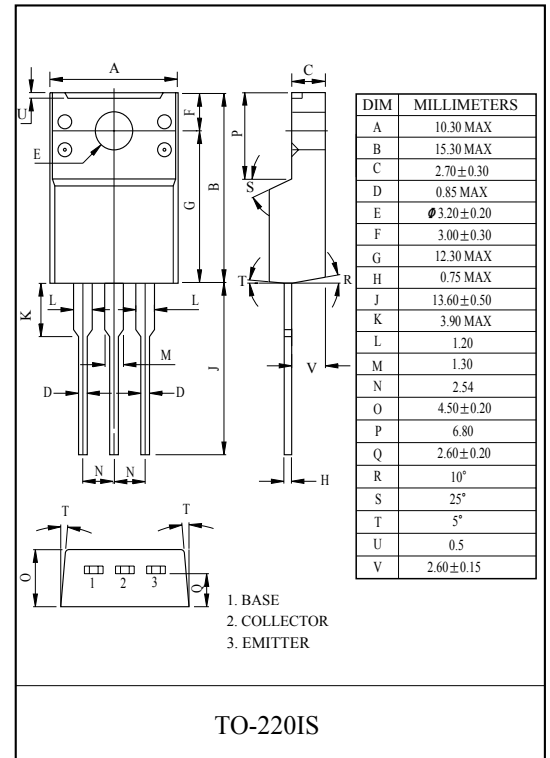
GENERAL PURPOSE APPLICATION.

### FEATURES

- Low Saturation Voltage  
:  $V_{CE(sat)}=1.0V(\text{Max.})$  at  $I_C=2A, I_B=0.2A$ .
- Complementary to KTB1366.

### MAXIMUM RATING ( $T_a=25^\circ\text{C}$ )

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	$T_a=25^\circ\text{C}$	$P_C$	2	W
	$T_c=25^\circ\text{C}$		25	
Junction Temperature		$T_j$	150	$^\circ\text{C}$
Storage Temperature Range		$T_{stg}$	-55 ~ 150	$^\circ\text{C}$

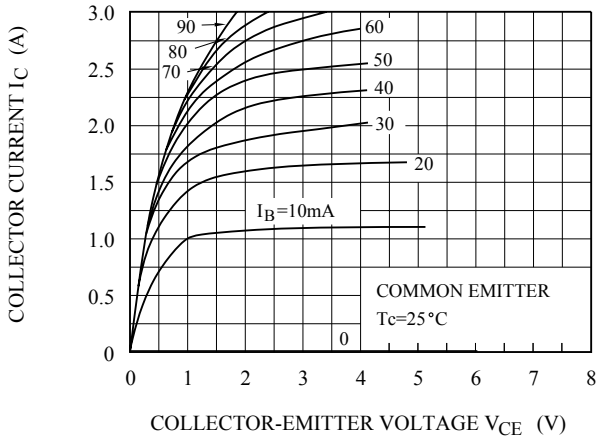


### ELECTRICAL CHARACTERISTICS ( $T_a=25^\circ\text{C}$ )

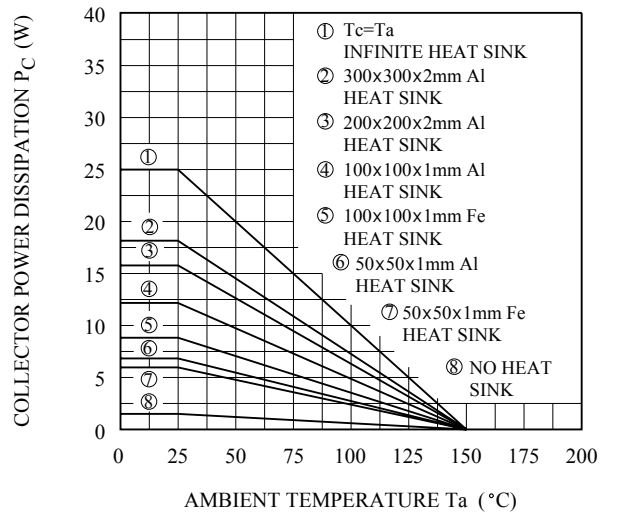
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current		$I_{CBO}$	$V_{CB}=60V, I_E=0$	-	-	100	$\mu\text{A}$
Emitter Cut-off Current		$I_{EBO}$	$V_{EB}=7V, I_C=0$	-	-	100	$\mu\text{A}$
Collector-Emitter Breakdown Voltage		$V_{(BR)CEO}$	$I_C=50\text{mA}, I_B=0$	60	-	-	V
DC Current Gain		$h_{FE}(\text{Note})$	$V_{CE}=5V, I_C=0.5A$	60	-	200	
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		$f_T$	$V_{CE}=5V, I_C=0.5A$	-	3.0	-	MHz
Collector Output Capacitance		$C_{ob}$	$V_{CB}=10V, I_E=0, f=1\text{MHz}$	-	35	-	pF
Switching Time	Turn-on Time	$t_{on}$	<p><math>I_{B1}=-I_{B2}=0.2A</math> DUTY CYCLE <math>\leq 1\%</math></p>	-	0.65	-	$\mu\text{S}$
	Storage Time	$t_{stg}$		-	1.3	-	
	Fall Time	$t_f$		-	0.65	-	

Note :  $h_{FE}$  Classification O:60 ~ 120, Y:100 ~ 200

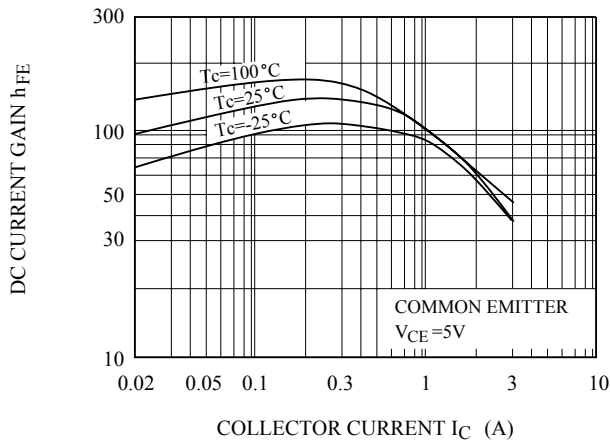
$I_C - V_{CE}$



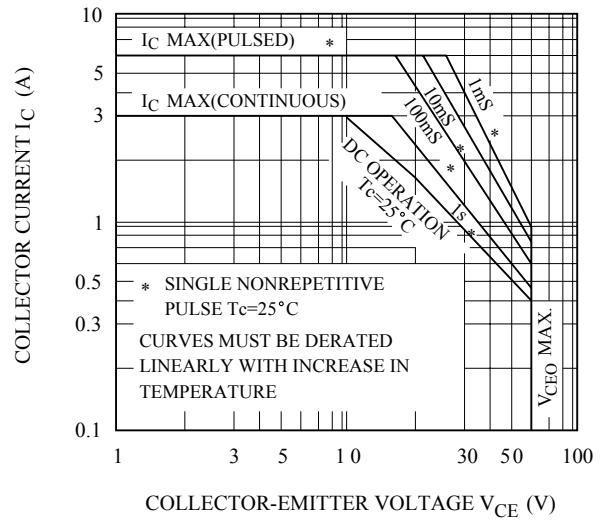
$P_c - T_a$



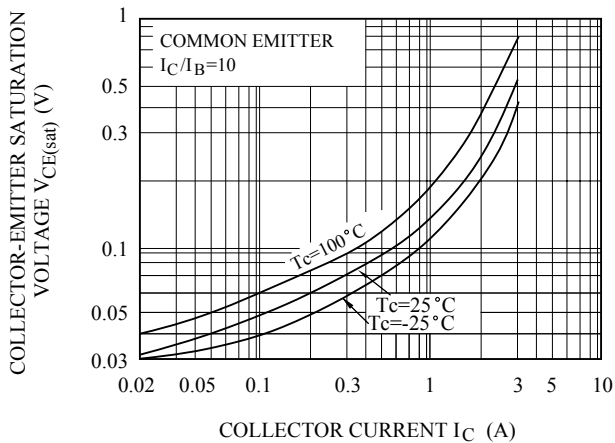
$h_{FE} - I_C$



SAFE OPERATING AREA



$V_{CE(sat)} - I_C$



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Datasheets for electronics components.