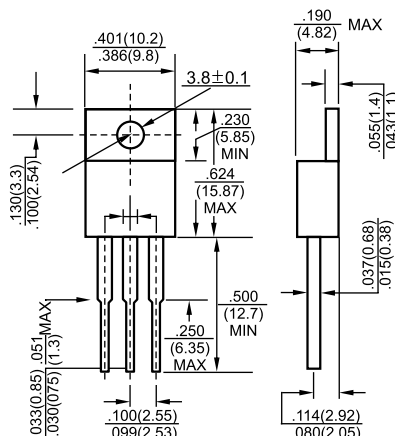


1. BASE
2. COLLECTOR
3. EMITTER

TO-220



Features

- ✧ Wide safe Operating Area.
- ✧ Complementary to 2SA940

MAXIMUM RATINGS (T_A=25°C unless otherwise noted)

Dimensions in inches and (millimeters)

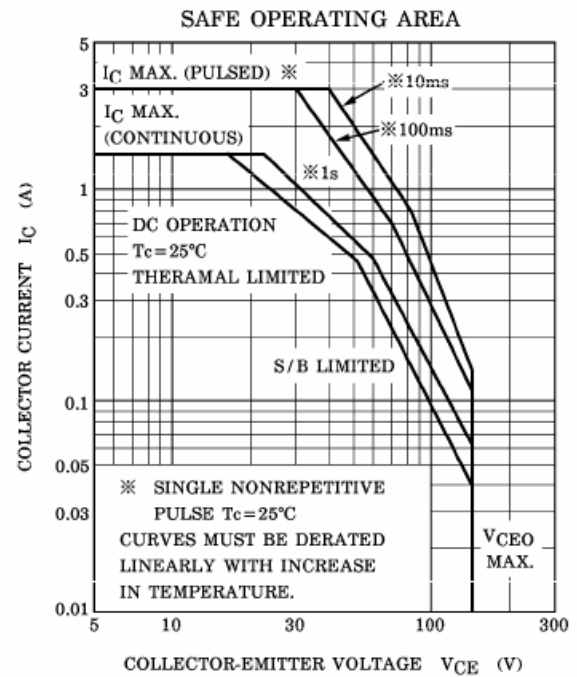
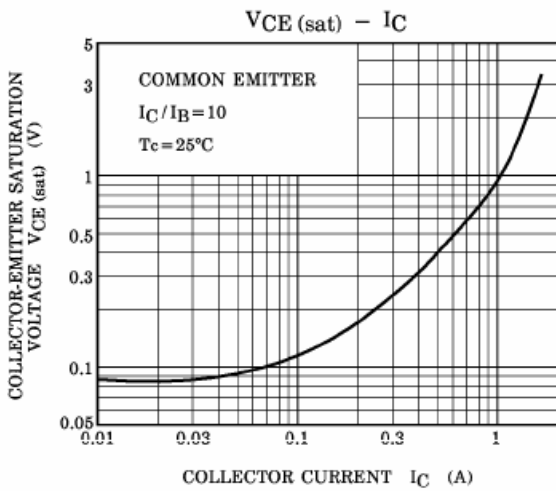
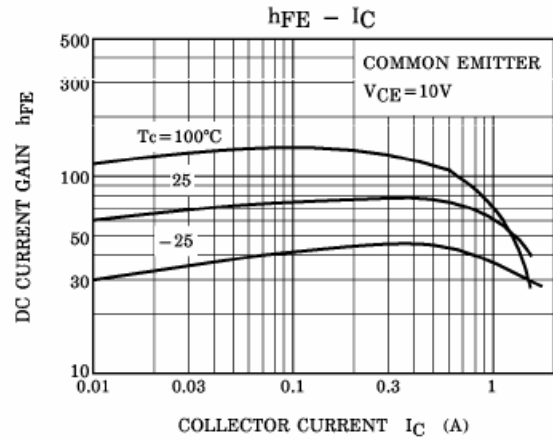
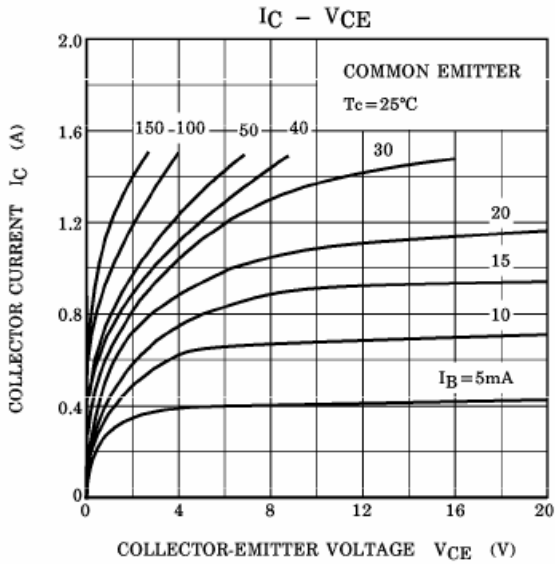
Symbol	Parameter	Value	Units
V _{CB0}	Collector-Base Voltage	150	V
V _{CEO}	Collector-Emitter Voltage	150	V
V _{EBO}	Emitter-Base Voltage	5	V
I _C	Collector Current -Continuous	1.5	A
P _C	Collector Power Dissipation	1.5	W
T _j	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55-150	°C

ELECTRICAL CHARACTERISTICS (T_{amb}=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =100μA, I _E =0	150			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =1mA, I _B =0	150			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =100μA, I _C =0	5			V
Collector cut-off current	I _{CB0}	V _{CB} =120V, I _E =0			10	μA
Emitter cut-off current	I _{EBO}	V _{EB} =5V, I _C =0			10	μA
DC current gain	h _{FE}	V _{CE} =10V, I _C =0.5A	40		140	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =0.5A, I _B =50mA			1.5	V
Base-emitter voltage	V _{BE}	V _{CE} =10V, I _C =0.5A	0.65		0.85	V
Transition frequency	f _T	V _{CE} =10V, I _C =0.5A		4		MHz
Collector output capacitance	C _{ob}	V _{CB} =10V, I _E =0, f=1MHz		35		pF



Typical Characteristics



Package	Packing	Box Size LxWxH(mm)	Quantity(pcs/box)	Carton Size LxWxH(mm)	Quantity(pcs/carton)
TO-220	50pcs/Tube	560x150x50	1000	570x290x180	5000