Parameter	Symbol	Value	Unit
Collector-base voltage	BV_{CBO}	100	V
Collector-emitter voltage	BV_{CEO}	80	V
Emitter-base voltage	BV_{EBO}	7	V
Collector current	I_C	5	A
Collector power dissipation	P_C	1.25	W
Junction temperature	T_j	150	
Storage temperature	T_{stg}	-55 150	

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	BV_{CBO}	I_C = 100 I_E = 0	100			V
Collector-emitter breakdown voltage	BV_{CEO}	I_C = 1mA I_B = 0	80			V
Emitter-base breakdown voltage	BV_{EBO}	I_E = 100 I_C = 0	7			V
Collector -base cut-off current	I_{CBO}	V_{CB} = 100V I_E = 0			1	
Emitter- base cut-off current	I_{EBO}	V_{EB} = 7V I_C = 0			1	
DC current gain*	$h_{FE}(1)$	V_{CE} = 1V I_C= 1A	70		240	
	$h_{FE}(2)$	V_{CE} = 1V I_C= 3A	40			
Collector-emitter saturation voltage*	$V_{CE(sat)}$	I_C = 3A, I_B = 0.15Af*506				

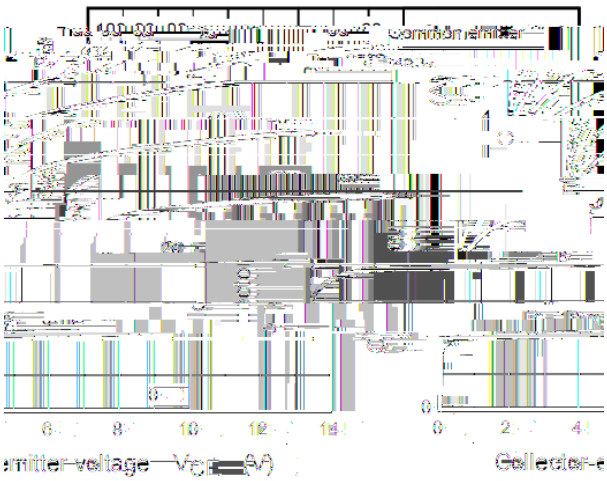


Figure 1. Static Characteristic

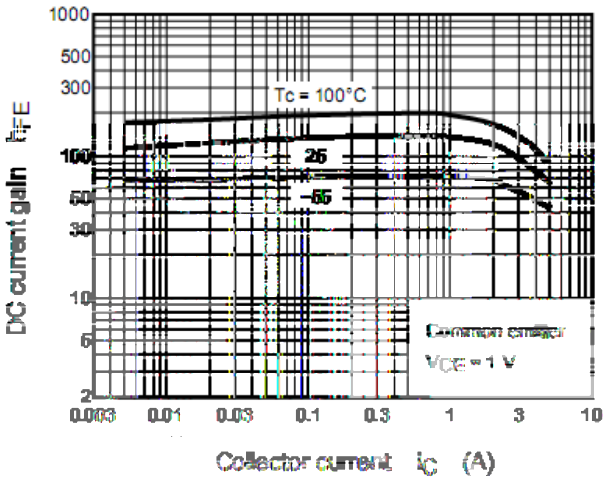


Figure 2. DC current Gain

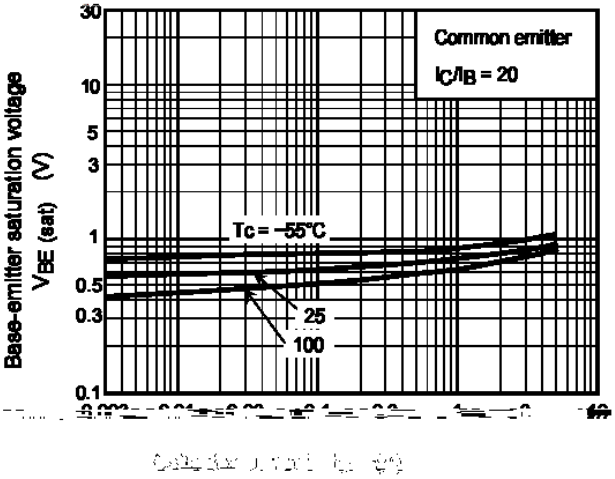


Figure 3. Base-Emitter Voltage
vs Collector current

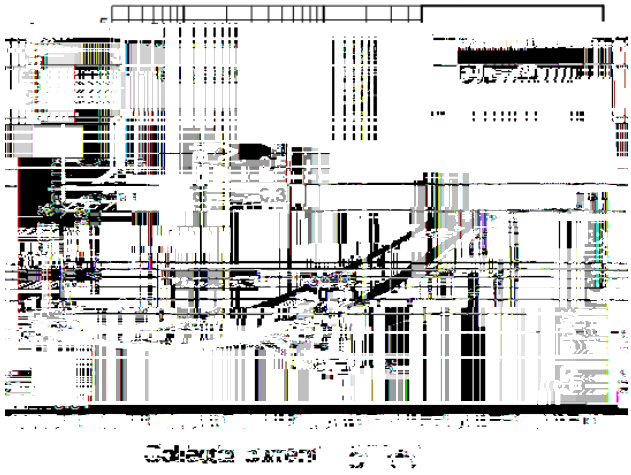


Figure 4. Collector e-Emitter Voltage
vs Collector current

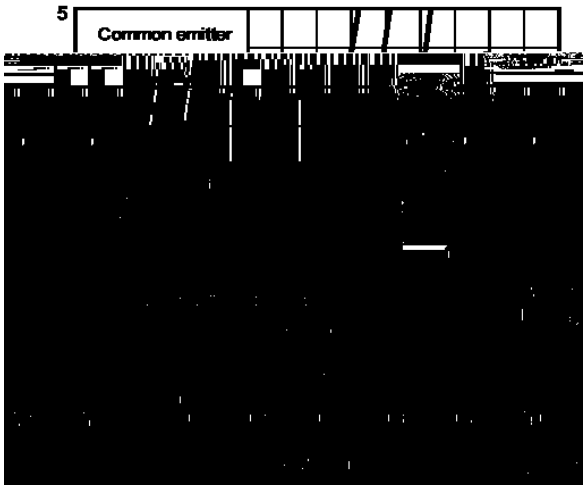


Figure 5. Collector current
vs Base-Emitter Voltage

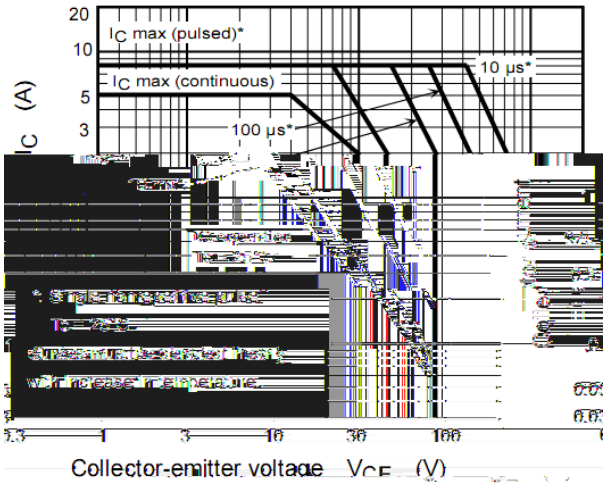


Figure 6. Safe Operating Area

Marking Diagram

Ordering information

Model name	Package	Unit Weight	Base Quantity	Packing Quantity
	TO-252	0.011oz(0.32g)	2500pcs/reel	5000pcs/box,25000pcs/Carton

Package Dimensions

TO-252

Dim	MillD	m	n