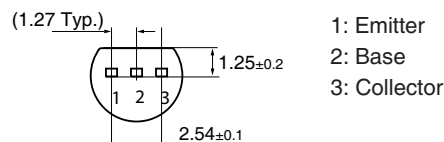
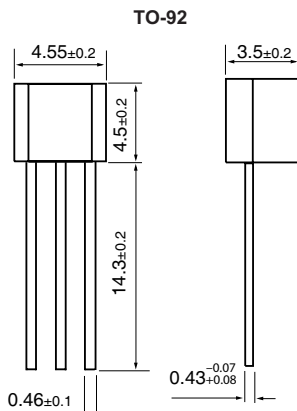


RoHS Compliant Product

A suffix of "-C" specifies halogen & lead-free

Features

Collector-base voltage:
 $V_{(BR)CBO} = 60V$



MAXIMUM RATINGS* ($T_{amb}=25^{\circ}C$, unless otherwise specified)

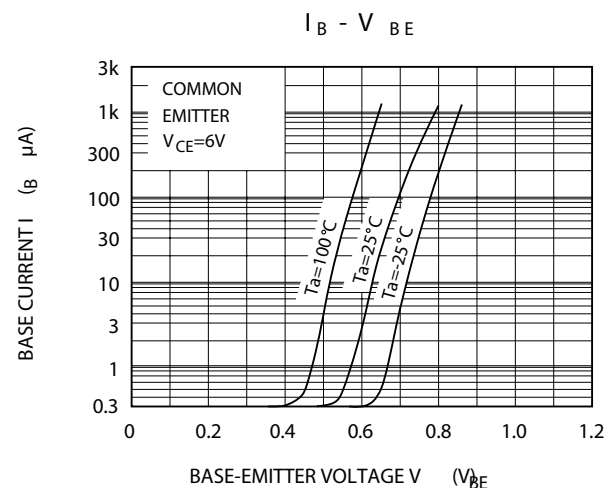
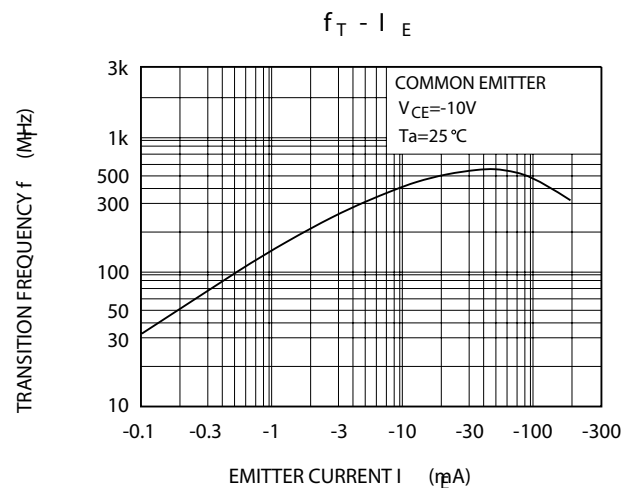
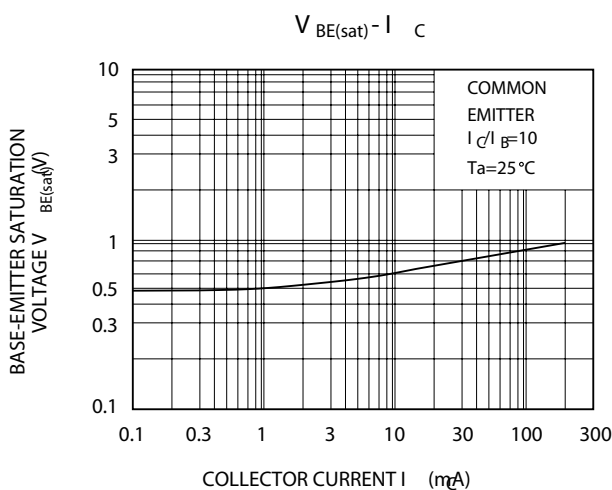
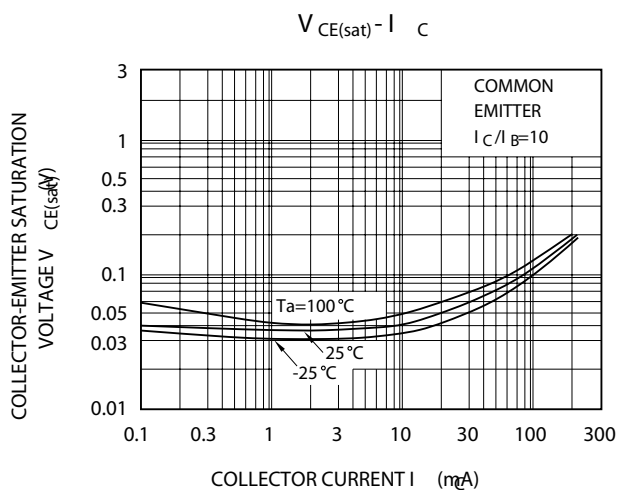
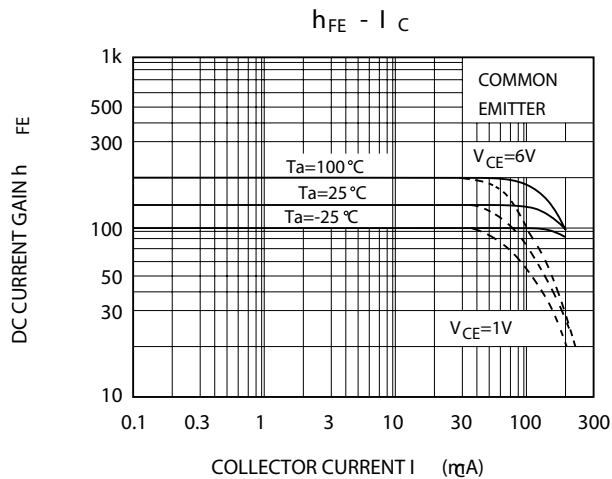
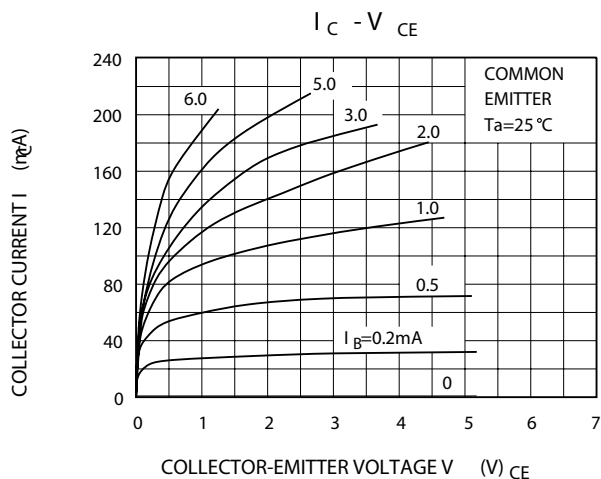
Symbol	Parameter	Value	Units
P_{CM}	Power Dissipation	0.625	W
I_{CM}	Collector Current	0.15	A
T_{stg}	Storage Temperature	-55~+150	$^{\circ}C$
T_J	Junction Temperature	150	$^{\circ}C$

ELECTRICAL CHARACTERISTICS ($T_{amb}=25^{\circ}C$, unless otherwise specified)

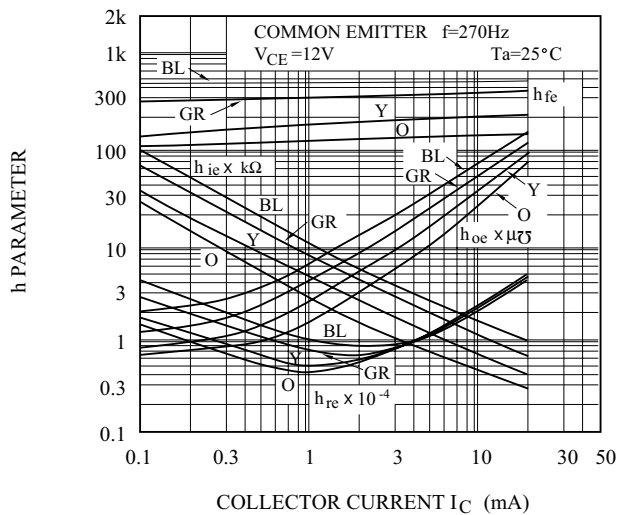
Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C = 100\mu A, I_E = 0$	60			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C = 5 mA, I_B = 0$	50			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E = 100\mu A, I_C = 0$	5			V
Collector cut-off current	I_{CBO}	$V_{CB} = 60V, I_E = 0$			0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB} = 5V, I_C = 0$			0.1	μA
DC current gain	$h_{FE(1)}$	$V_{CE} = 6V, I_C = 2 mA$	70		700	
	$h_{FE(2)}$	$V_{CE} = 6V, I_C = 150 mA$	25	100		
Collector-emitter saturation voltage	V_{CEsat}	$I_C = 100 mA, I_B = 10 mA$		0.1	0.25	V
Base-emitter saturation voltage	V_{BEsat}	$I_C = 100 mA, I_B = 10 mA$			1	V
Transition frequency	f_T	$V_{CE} = 10V, I_C = 1 mA, f = 30MHz$	80			MHz

CLASSIFICATION OF $h_{FE(1)}$

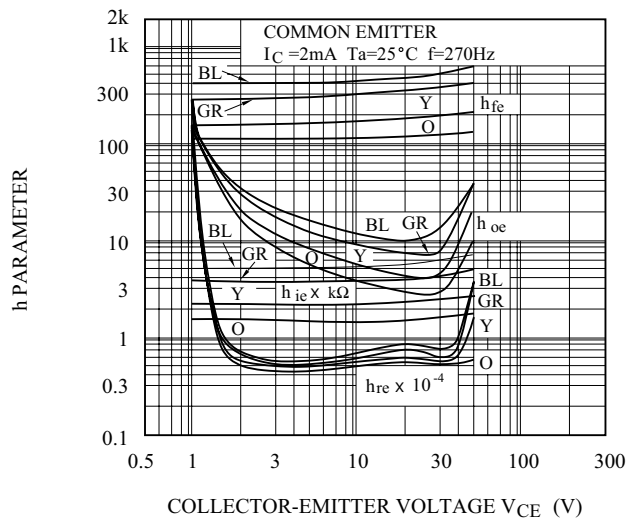
Rank	O	Y	GR	BL
Range	70-140	120-240	200-400	350-700



h PARAMETER - I_C



h PARAMETER - V_{CE}



$P_C - T_a$

