

HIGH CURRENT APPLICATION.

**FEATURE**

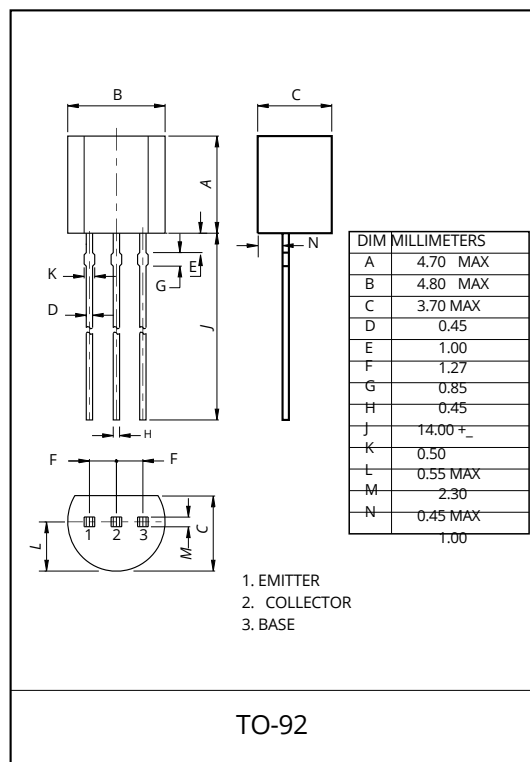
Complementary to KTA1283.

**MAXIMUM RATING (Ta=25 )**

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	VCBO	40	V
Collector-Emitter Voltage	VCEO	25	V
Emitter-Base Voltage	VEBO	6	V
Collector Current	IC	1.5	A
Collector Power	PC	625	mW
Dissipation Junction	Tj	150	
Temperature	Tstg	-55 150	

Storage Temperature

Range

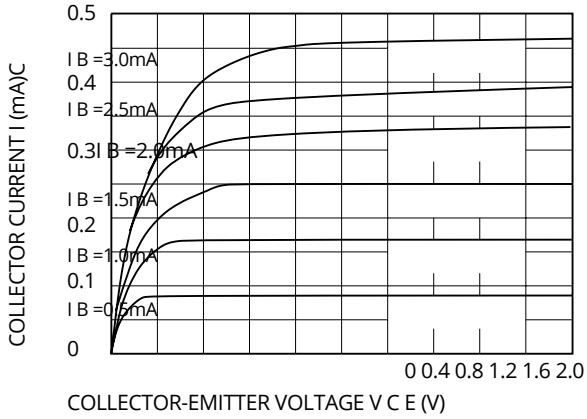


**ELECTRICAL CHARACTERISTICS (Ta=25)**

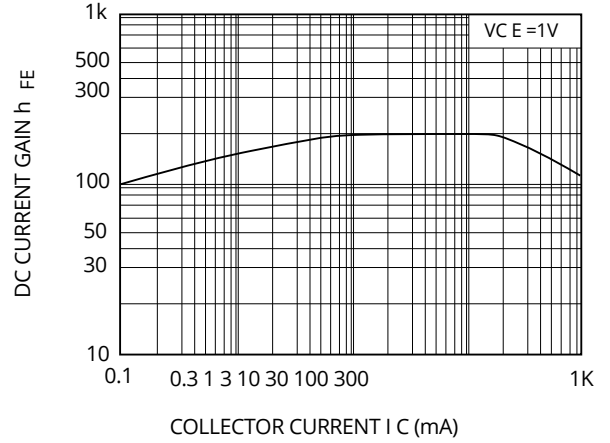
CHARACTERISTICS	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	ICBO	VCB=35V, IE=0	-	-	100	nA
Emitter Cut-off Current	IEBO	VEB=6V, IC=0	-	-	100	nA
Collector-Base Breakdown Voltage	V(BR)CBO	IC=100A, IE=0	40	-	-	V
Collector-Emitter Breakdown Voltage	V(BR)CEO	IC=2mA, IB=0	25	-	-	V
hFE(1)		VCE=1V, IC=5mA	45	135	-	
DC Current Gain	hFE(2)	(Note) VCE=1V, IC=100mA	85	160	300	
hFE(3)		VCE=1V, IC=800mA	40	110	-	
Collector-Emitter Saturation Voltage	VCE(sat)	IC=800mA, IB=80mA	-	0.28	0.5	v
Base-Emitter Saturation Voltage	VBE(sat)	IC=800mA, IB=80mA	-	0.98	1.2	v
Base-Emitter Voltage	VBE	VCE=1V, IC=10mA	-	0.66	1.0	v
Transition Frequency	fT	VCE=10V, IC=50mA	100	190	-	MHz
Collector Output Capacitance	Cob	VCB=10V, f=1MHz, IE=0	-	9	-	pF

Note : hFE(2) Classification O.85160 , Y.120200 , GR.160300

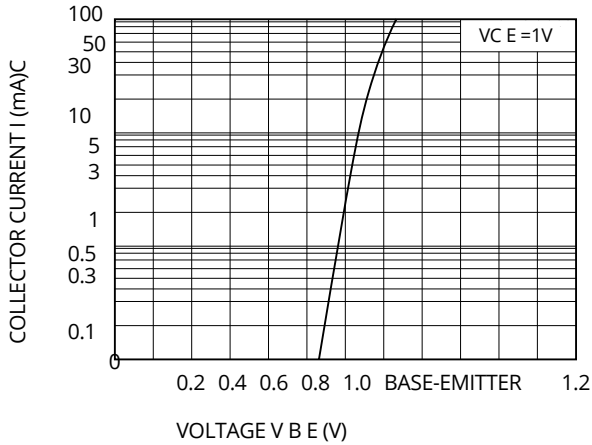
$I_C - V_{CE}$



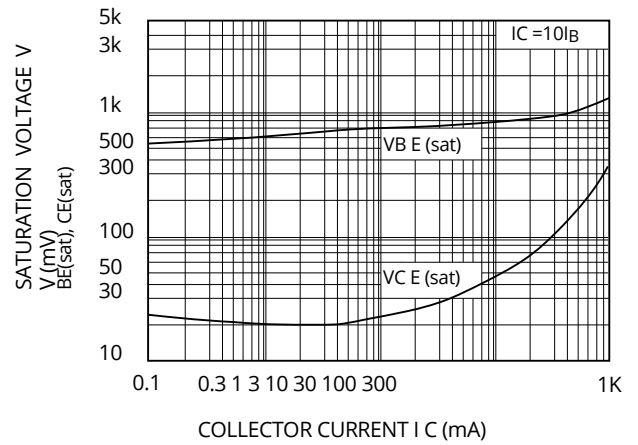
$h_{FE} - I_C$



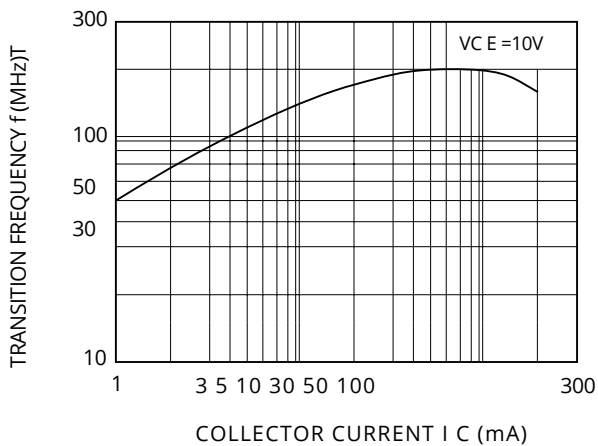
$I_C - V_{BE}$



$V_{BE(sat)}, V_{CE(sat)} - I_C$



$f_T - I_C$



$C_{ob} - V_{CB}$

