

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Min	Typ	Max	Units	Conditions
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	-40			V	$I_C = -100\mu A$, $I_E = 0$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	-25			V	$I_C = -100\mu A$, $I_B = 0$
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-5			V	$I_E = -100\mu A$, $I_C = 0$
Collector-Base Cutoff Current	I_{CBO}			-100	nA	$V_{CB} = -40V$, $I_E = 0$
Collector-Emitter Cutoff Current	I_{CEO}			-100	nA	$V_{CE} = -20V$, $I_B = 0$
Emitter-Base Cutoff Current	I_{EBO}			-100	nA	$V_{EB} = -5V$, $I_C = 0$
DC Current Gain	$h_{FE(1)}$	120		350		$V_{CE} = -1V$, $I_C = -100mA$
	$h_{FE(2)}$	40				$V_{CE} = -1V$, $I_C = -800mA$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$			-0.5	V	$I_C = -800mA$, $I_B = -80mA$
Base-Emitter Saturation Voltage	$V_{BE(sat)}$			-1.2	V	$I_C = -800mA$, $I_B = -80mA$
Base-Emitter Voltage	V_{BE}			-1	V	$V_{CE} = -1V$, $I_C = -10mA$
Transition Frequency	f_T	100			MHz	$V_{CE} = -10V$, $I_C = -50mA$, $f = 30MHz$

Curve Characteristics

Fig. 1 - Static Characteristics

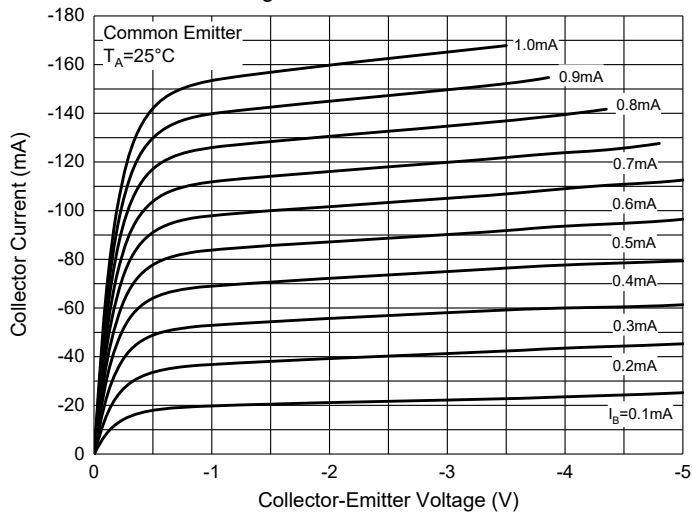


Fig. 2 - DC Current Gain Characteristics

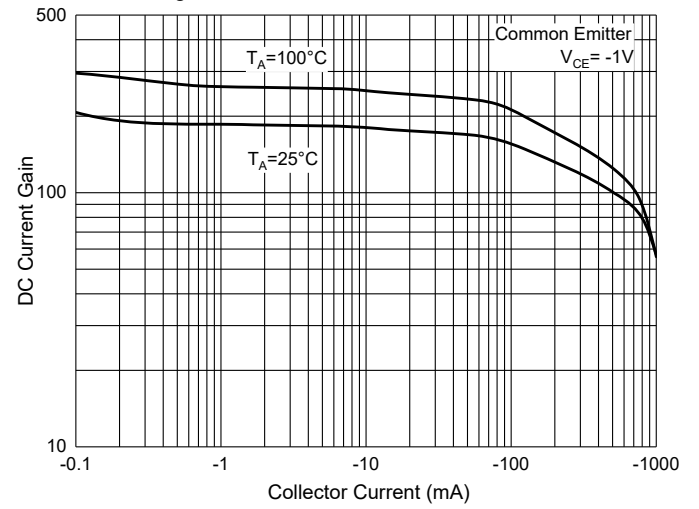


Fig. 3 - Collector-Emitter Saturation Voltage Characteristics

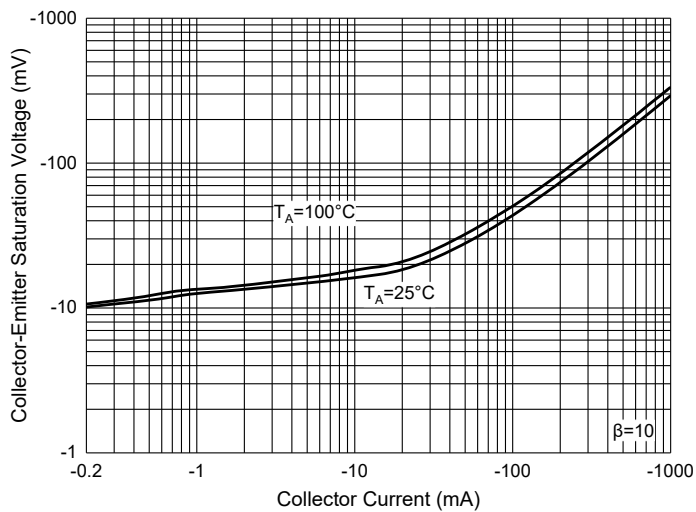


Fig. 4 - Base-Emitter Saturation Voltage Characteristics

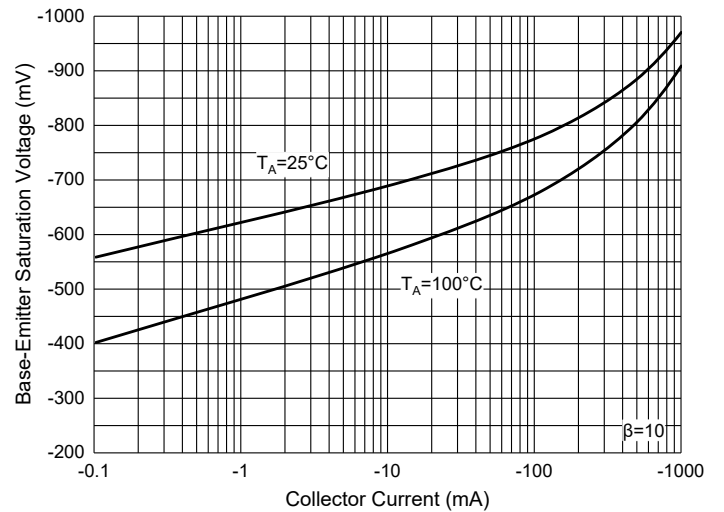


Fig. 5 - Base-Emitter Voltage Characteristics

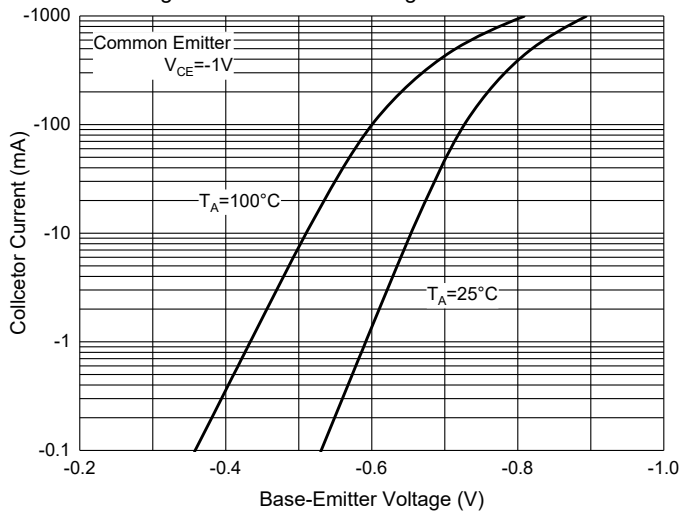
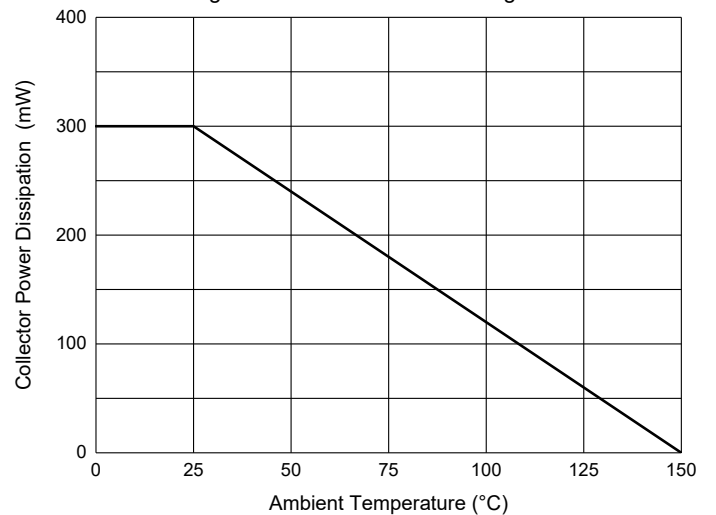


Fig. 6 - Collector Power Derating Curve



Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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