

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	$I_C=0.1mA, I_B=0$
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	5			V	$I_E=100\mu A, I_C=0$
Collector-Base Cutoff Current	I_{CBO}			0.1	μA	$V_{CB}=40V, I_E=0$
Collector-Emitter Cutoff Current	I_{CEO}			0.1	μA	$V_{CE}=20V, I_B=0$
Emitter-Base Cutoff Current	I_{EBO}			0.1	μA	$V_{EB}=5.0V, I_C=0$
DC Current Gain	$h_{FE(1)}$	120		400		$V_{CE}=1.0V, I_C=100mA$
	$h_{FE(2)}$	40				$V_{CE}=1.0V, I_C=800mA$
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 Positive Favor Voltage	V_{BEF}			1.55	V	$I_B=1.0A$
Transition Frequency	f_T	100			MHz	$V_{CE}=10V, I_C=50mA, f=30MHz$
Output Capacitance	C_{ob}			15	pF	$V_{CB}=10V, I_E=0, f=1MHz$

Classification of $h_{FE(1)}$

Rank	PXT8050-C	PXT8050-D	PXT8050-D3
Range	120-200	160-300	300-400
Marking	Y1	Y1	Y1

Curve Characteristics

Fig. 1 - Static Characteristics

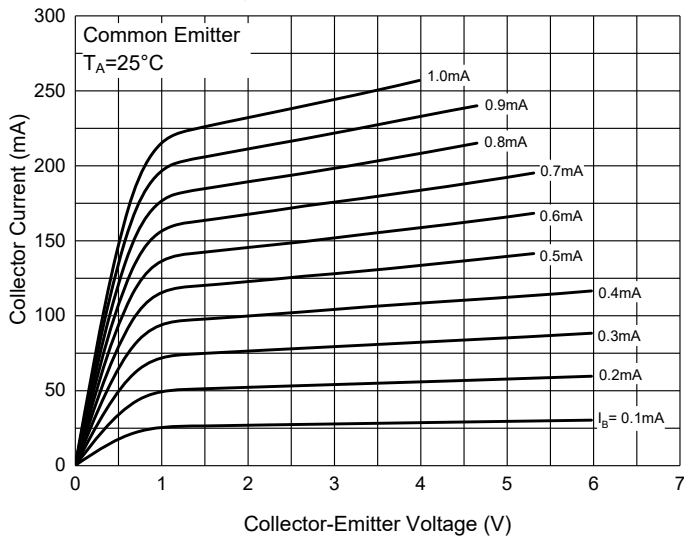


Fig. 2 - DC Current Gain Characteristics

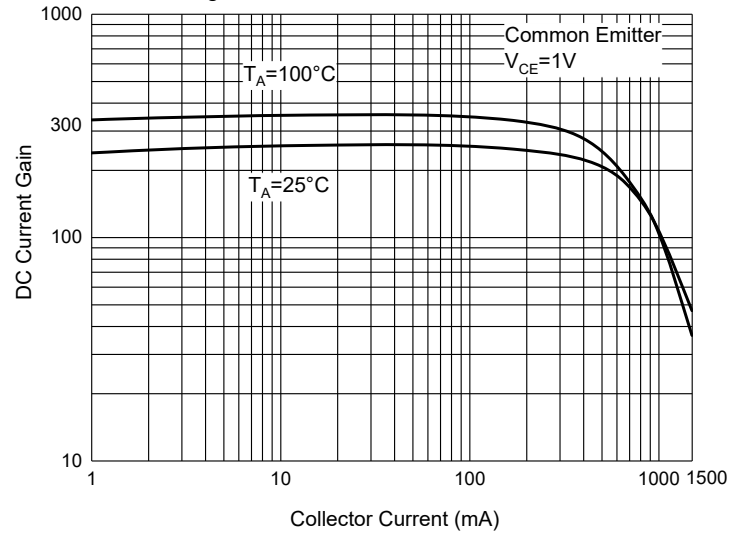


Fig. 3 - Collector-Emitter Saturation Voltage Characteristics

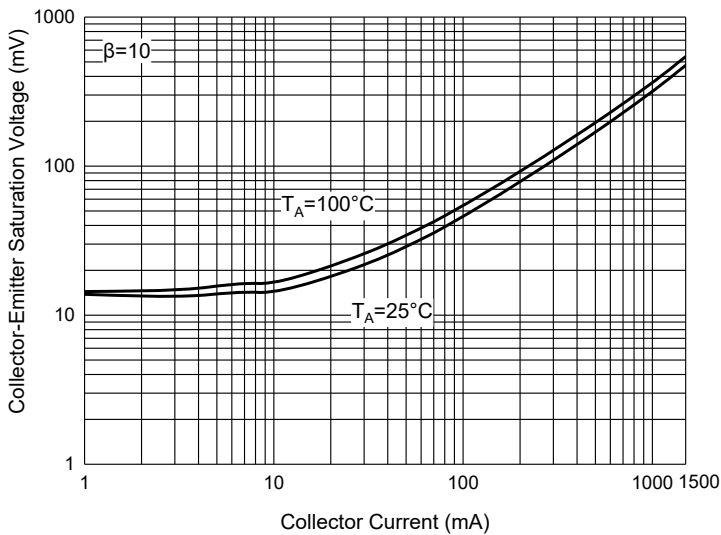


Fig. 4 - Base-Emitter Saturation Voltage Characteristics

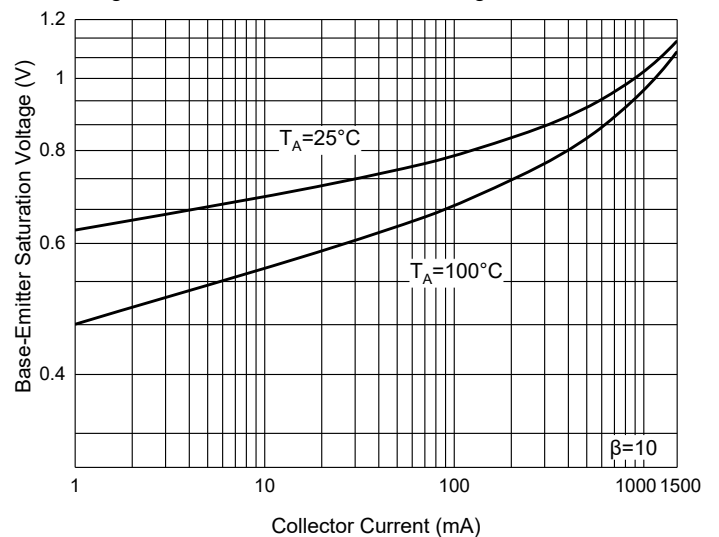


Fig. 5 - Base-Emitter Voltage Characteristics

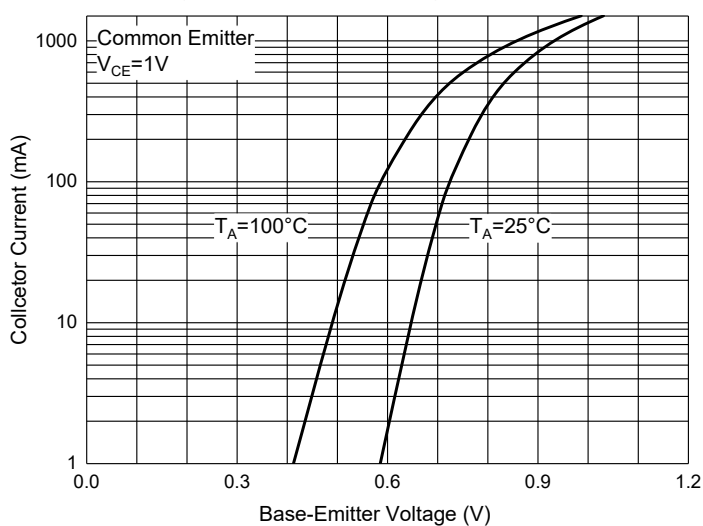
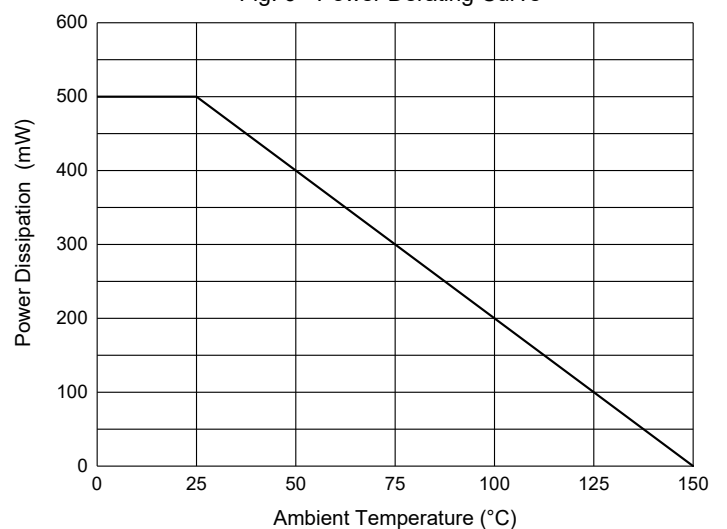


Fig. 6 - Power Derating Curve



Ordering Information

Device	Packing
Part Number-TP	Tape&Reel:1Kpcs/Reel

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