

## Electrical Characteristics @ $T_A$ =25°C Unless Otherwise Specified

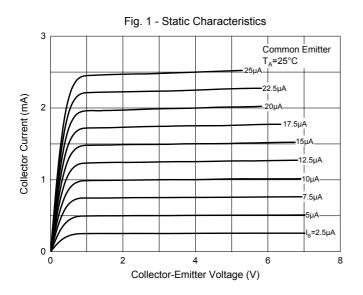
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	V <sub>(BR)CBO</sub>	25			V	I <sub>C</sub> =100μA, I <sub>E</sub> =0
Collector-Emitter Breakdown Voltage	V <sub>(BR)CEO</sub>	18			V	I <sub>C</sub> =1mA, I <sub>B</sub> =0
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	4			V	I <sub>E</sub> =100μA, I <sub>C</sub> =0
Collector-Base Cutoff Current	I <sub>CBO</sub>			0.1	μA	$V_{CB}$ =20V, $I_{E}$ =0
Collector Cutoff Current	I <sub>CEO</sub>			0.1	μA	V <sub>CE</sub> =15V, I <sub>B</sub> =0
Emitter-Base Cutoff Current	I <sub>EBO</sub>			0.1	μA	V <sub>EB</sub> =3V, I <sub>C</sub> =0
DC Current Gain	h <sub>FE</sub>	70		190		V <sub>CE</sub> =5V, I <sub>C</sub> =1mA
Collector-Emitter Saturation Voltage	V <sub>CE(sat)</sub>			0.5	V	I <sub>C</sub> =10mA, I <sub>B</sub> =1mA
Base-Emitter Saturation Voltage	V <sub>BE(sat)</sub>			1.4	V	I <sub>C</sub> =10mA, I <sub>B</sub> =1mA
Transition Frequency	f <sub>T</sub>	600			MHz	V <sub>CE</sub> =5V, I <sub>C</sub> =5mA, f=400MHz

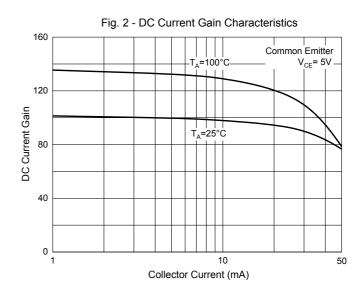
## Classification of $h_{\text{FE}}$

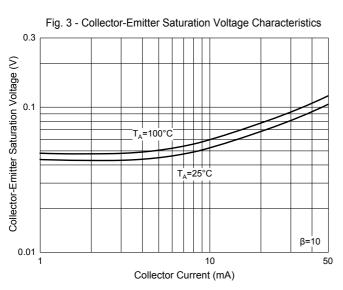
Rank	L	Н
Range	70-105	105-190

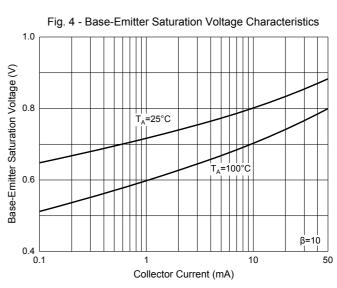


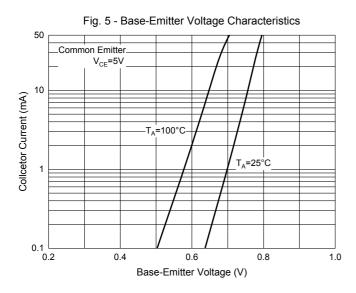
#### **Curve Characteristics**

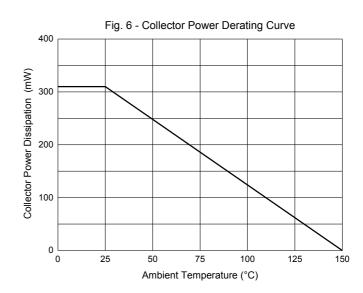














### **Ordering Information**

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

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