

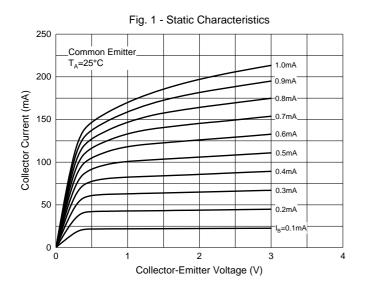
Electrical Characteristics @ T_A =25°C Unless Otherwise Specified

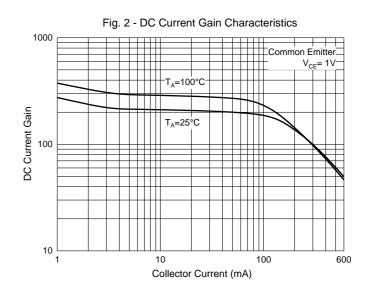
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	60			V	I _C =10mA, I _E =0
Collector-Emitter Breakdown Voltage*	$V_{(BR)CEO}$	40			V	I _C =1mA, I _B =0
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	6			V	I _E =100μA, I _C =0
Base Cutoff Current	I _{BL}			0.1	μA	V _{CE} =35V, V _{BE} =0.4V
Collector Cutoff Current	I _{CEX}			0.1	μA	V _{CE} =35V, V _{BE} =0.4V
DC Current Gain*	h _{FE(1)}	20				V _{CE} =1V, I _C =0.1mA
	h _{FE(2)}	40				V _{CE} =1V, I _C =1mA
	h _{FE(3)}	80				V _{CE} =1V, I _C =10mA
	h _{FE(4)}	100		300		V _{CE} =1V, I _C =150mA
	h _{FE(5)}	40				V _{CE} =1V, I _C =500mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}			0.4	V	I _C =150mA, I _B =15mA
				0.75	V	I _C =500mA, I _B =50mA
Base-Emitter Saturation Voltage	V _{BE(sat)}		0.75	0.95	V	I _C =150mA, I _B =15mA
				1.2	V	I _C =500mA, I _B =50mA
Transition Frequency	f _T	250			MHz	V _{CE} =10V, I _C =20mA, f=100MHz
Delay Time	t _d			15	ns	V _{CC} =30V, V _{BE} =0.2V, I _C =150mA,
Rise Time	t _r			20	ns	I _{B1} =15mA
Storage Time	t _s			225	ns	-V _{CC} =30V, I _C =150mA, I _{B1} =I _{B2} =15mA
Fall Time	t _f			30	ns	
Collector-Base Capacitance	C _{cb}			6.5	pF	V _{CB} =5V, I _E =0,f=1MHz
Emitter-Base Capacitance	C _{eb}			30	pF	V _{EB} =0.5V, I _C =0, f=1MHz

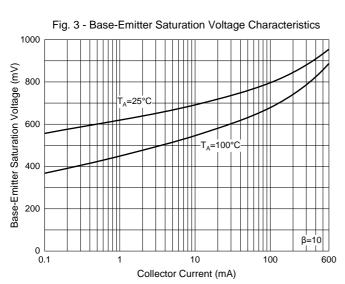
^{*.}Pulse test: Pulse Width≤300µs,Duty Cycle≤2.0%.

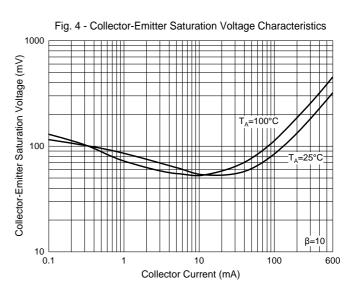


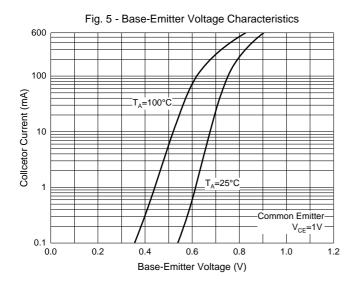
Curve Characteristics

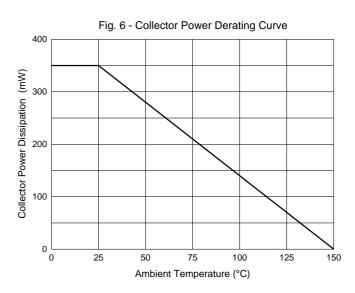














Ordering Information

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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