

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	60			V	I _C =10μA, 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 =10μA, I _C =0
Collector-Base Cutoff Current	I _{CBO}			50	nA	V _{CB} =30V, I _E =0
Collector Cutoff Current	I _{CEX}			50	nA	V _{CE} =30V, V _{BE} =3V
	h _{FE(1)}	40				V _{CE} =1V, I _C =0.1mA
	h _{FE(2)}	70				V _{CE} =1V, I _C =1mA
DC Current Gain*	h _{FE(3)}	100		300		V _{CE} =1V, I _C =10mA
	h _{FE(4)}	60				V _{CE} =1V, I _C =50mA
	h _{FE(5)}	30				V _{CE} =1V, I _C =100mA
Collector Emitter Seturation Valtage	V _{CE(sat)}			0.2	V	I _C =10mA, I _B =1mA
Collector-Emitter Saturation Voltage				0.3	V	I _C =50mA, I _B =5mA
Page Emitter Seturation Voltage	V	0.65		0.85	V	I _C =10mA, I _B =1mA
Base-Emitter Saturation Voltage	V _{BE(sat)}			0.95	V	I _C =50mA, I _B =5mA
Transition Frequency	f _T	300			MHz	V _{CE} =20V, I _C =10mA, f=100MHz
Output Capacitance	C _{cbo}			4.0	pF	V _{CB} =5V, I _E =0, f=1MHz,
Input Capacitance	C _{ibo}			8.0	pF	V _{BE} =0.5V, I _C =0, f=1MHz,
Noise Figure	NF			5	dB	V_{CE} =5V, I_{C} =0.1mA
ivoise i igure	INF			3	ub	R_S =1K Ω , f=10Hz to 15.7KHz
Delay Time	t _d			35	ns	V _{CC} =3V, I _C =10mA
Rise Time	t _r			35	ns	V _{BE} =0.5V, I _{B1} =1mA
Storage Time	t _s			200	ns	V _{CC} =3V, I _C =10mA
Fall Time	t _f			50	ns	I _{B1} =I _{B2} =1mA

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

Marking Information



1AM=Product Type Marking Code Y=Date Code Marking

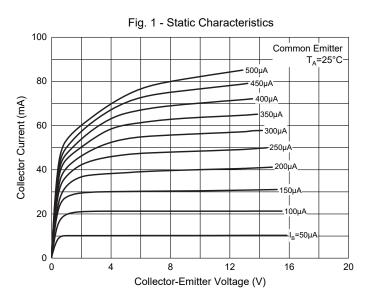
Date code Key (2 years a cycle)

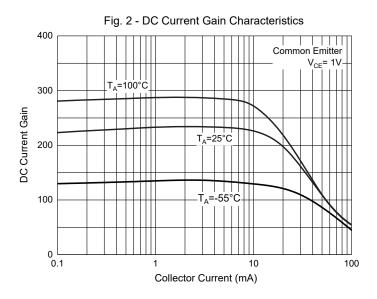
Year	2011											
Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Code	J	0	L	С	K	В	Р	D	М	Е	G	F

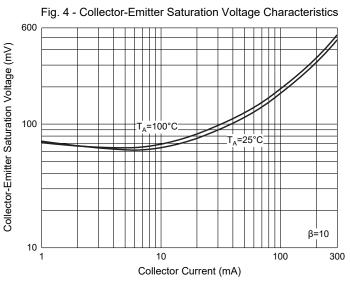
Year	2012											
Month	Jan	Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec										
Code	W	N	Υ	Т	R	Н	Α		J	Х	Z	S

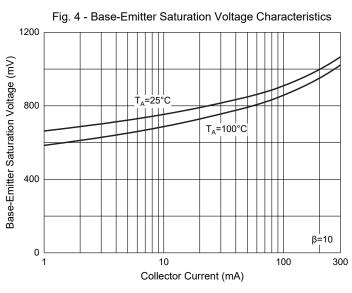


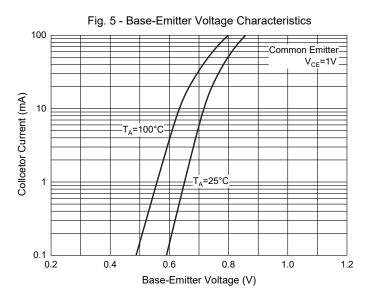
Curve Characteristics

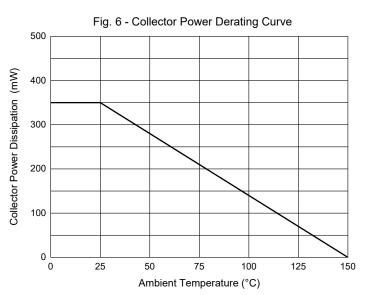














Ordering Information

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

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