



## Electrical Characteristics @25°C unless otherwise specified

Characteristic	Symbol	Min	Max	Unit	Test Condition
DC Current Gain	Current Gain Group -16 -25 -40	100	250	—	$V_{CE} = 1.0V, I_C = 100mA$
		160	400		$V_{CE} = 1.0V, I_C = 300mA$
	Current Gain Group -16 -25 -40	250	600	—	
		60	—		
		100	—		
		170	—		
Thermal Resistance, Junction to Substrate Backside	$R_{\theta SB}$	—	320	K/W	
Thermal Resistance, Junction to Ambient Air	$R_{\theta JA}$	—	400	K/W	
Collector-Emitter Saturation Voltage	$V_{CE(SAT)}$	—	0.7	V	$I_C = 500mA, I_B = 50mA$
Base-Emitter Voltage	$V_{BE}$	—	1.2	V	$V_{CE} = 1.0V, I_C = 300mA$
Collector-Emitter Cutoff Current	$I_{CES}$	—	100	nA	$V_{CE} = 45V$
		—	5.0	$\mu A$	$V_{CE} = 25V, T_J = 150^\circ C$
Emitter-Base Cutoff Current	$I_{EBO}$	—	100	nA	$V_{EB} = 4.0V$
Gain Bandwidth Product	$f_T$	100	—	MHz	$V_{CE} = 5.0V, I_C = 10mA, f = 50MHz$
Collector-Base Capacitance	$C_{CBO}$	—	12	pF	$V_{CB} = 10V, f = 1.0MHz$

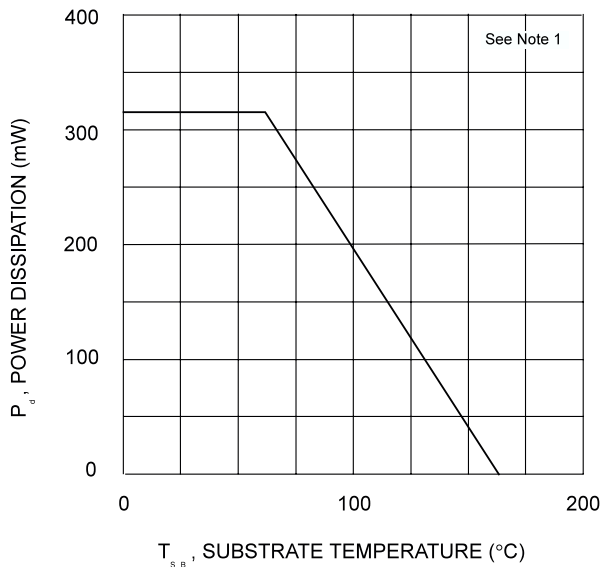


Fig. 1, Power Derating Curve

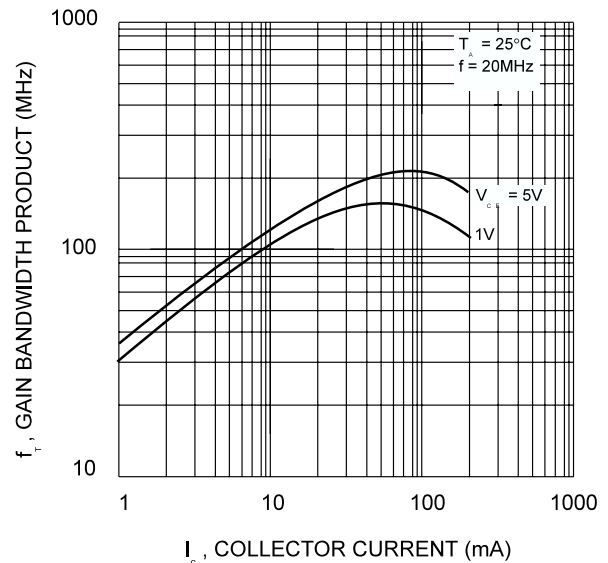
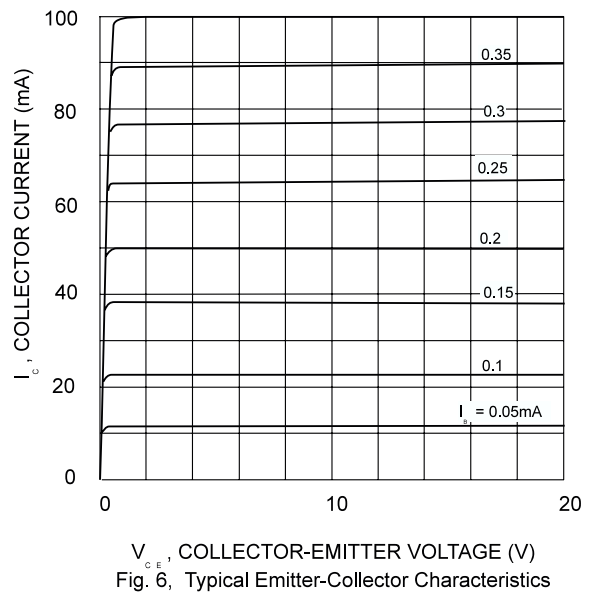
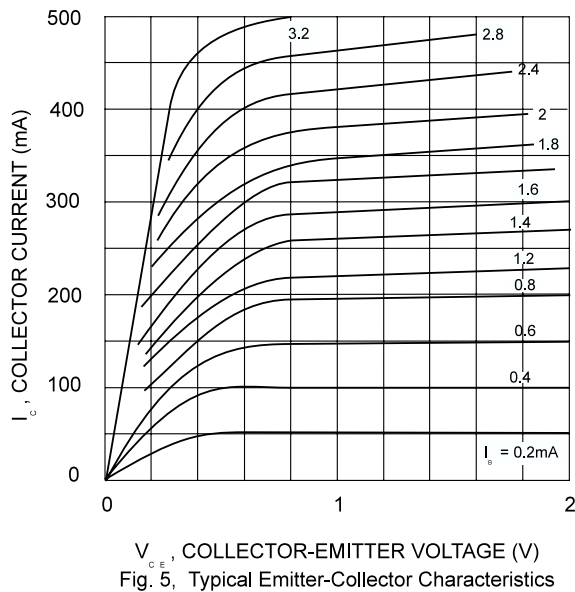
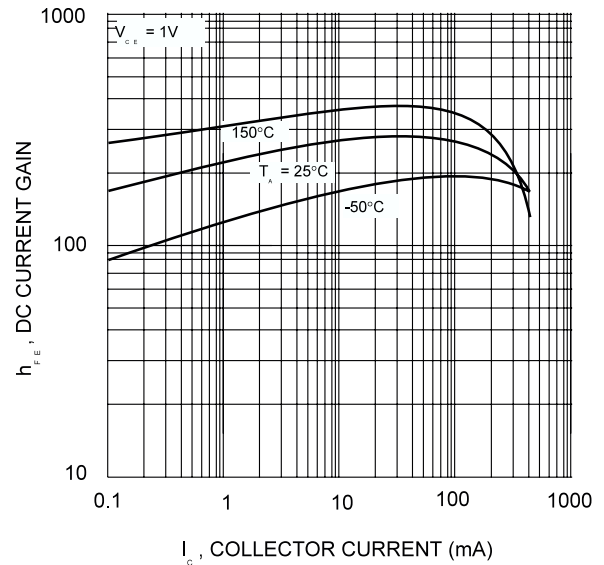
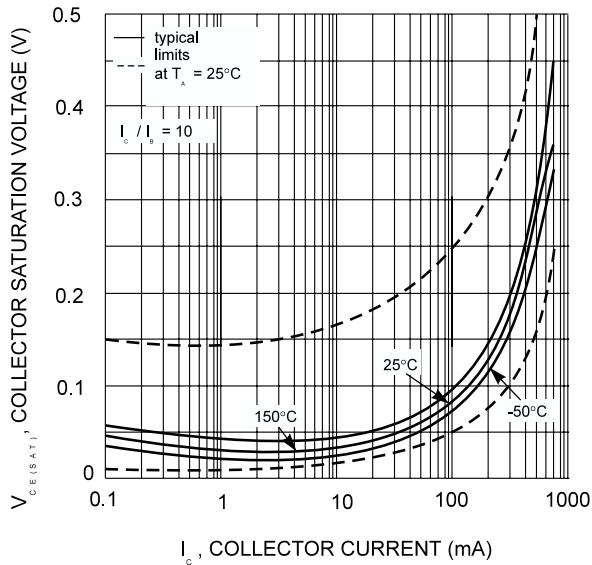


Fig. 2, Gain-Bandwidth Product vs Collector Current





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### Ordering Information :

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

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