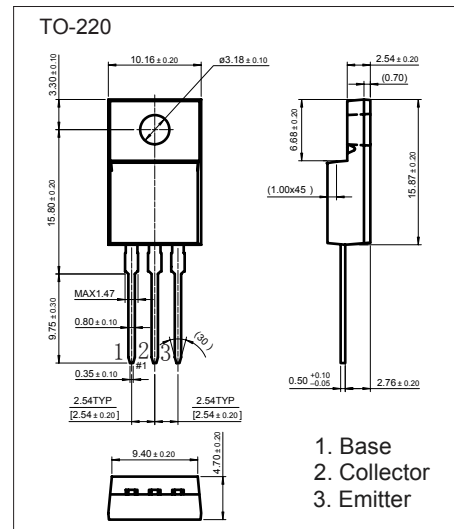


TIP127

■ Features

- Collector Current Capability $I_{CM} = -5A$
- Collector Emitter Voltage $V_{CEO} = -100V$
- Medium Power Complementary Silicon Transistors



■ Absolute Maximum Ratings $T_a = 25^\circ C$

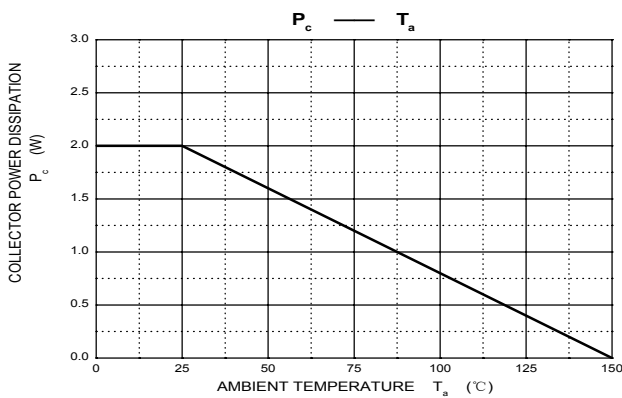
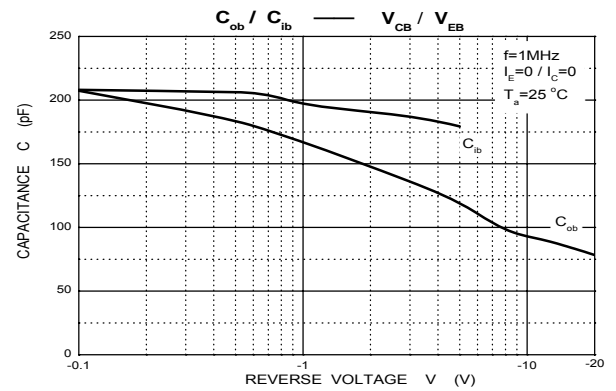
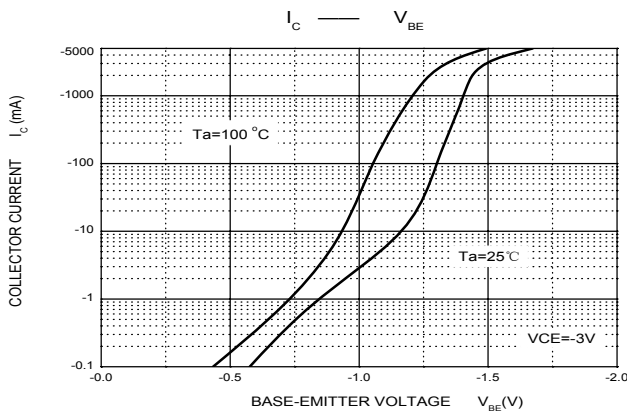
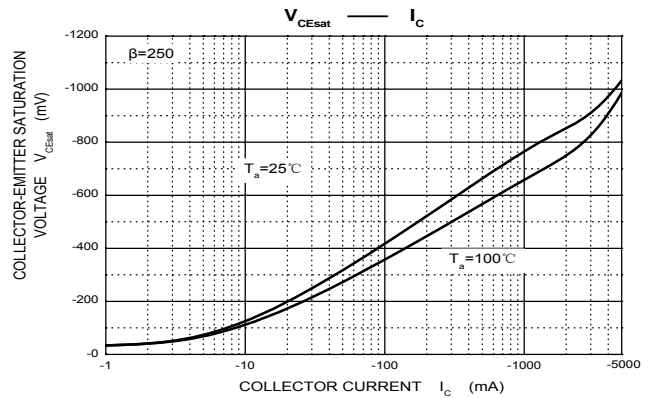
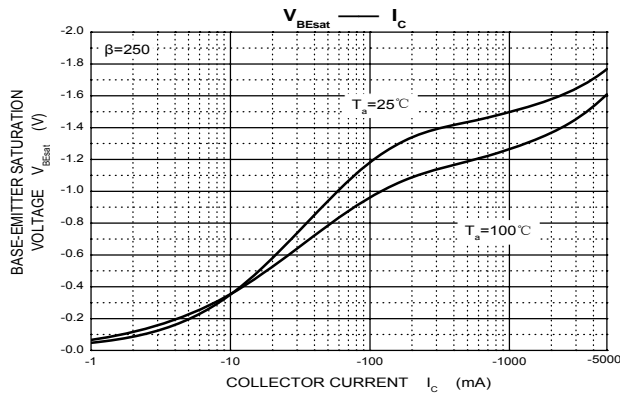
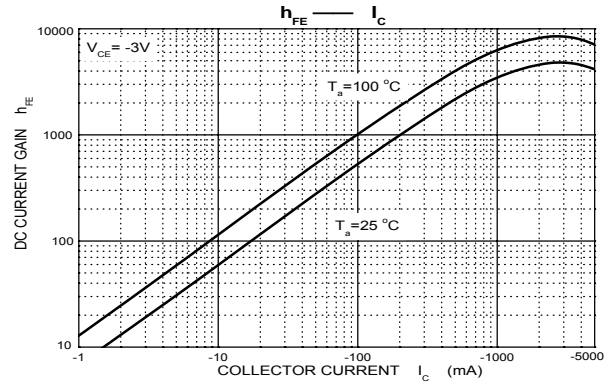
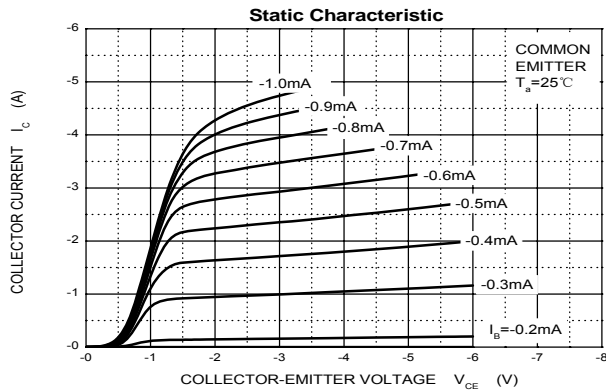
Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V_{CBO}	-100	V
Collector - Emitter Voltage	V_{CEO}	-100	
Emitter - Base Voltage	V_{EBO}	-5	
Collector Current - Continuous	I_{CM}	-5	A
Collector Power Dissipation	P_C	2	W
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	62.5	$^\circ C/W$
Thermal Resistance Junction to Case	$R_{\theta JC}$	1.92	
Junction Temperature	T_J	150	$^\circ C$
Storage Temperature Range	T_{stg}	-55 to 150	

■ Electrical Characteristics $T_a = 25^\circ C$

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V_{CBO}	$I_C = -1\text{ mA}, I_E = 0$	-100			V
Collector- emitter breakdown voltage	V_{CEO}	$I_C = -30\text{ mA}, I_B = 0$	-100			
Emitter - base breakdown voltage	V_{EBO}	$I_E = -1\text{ mA}, I_C = 0$	-5			
Collector-base cut-off current	I_{CBO}	$V_{CB} = -100\text{ V}, I_E = 0$			-0.2	mA
Collector- emitter cut-off current	I_{CEO}	$V_{CE} = -50\text{ V}, I_E = 0$			-0.5	
Emitter cut-off current	I_{EBO}	$V_{EB} = -5\text{ V}, I_C = 0$			-2	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -3\text{ A}, I_B = -12\text{ mA}$			-2	V
		$I_C = -5\text{ A}, I_B = -20\text{ mA}$			-4	
Base - emitter saturation voltage	$V_{BE(sat)}$	$I_C = -3\text{ A}, I_B = -12\text{ mA}$			-1.2	V
Base-emitter voltage	V_{BE}	$V_{CE} = -3\text{ V}, I_C = -3\text{ A}$			-2.5	
DC current gain	h_{FE}	$V_{CE} = -3\text{ V}, I_C = -0.5\text{ A}$	1000			
		$V_{CE} = -3\text{ V}, I_C = -3\text{ A}$	1000			
Collector output capacitance	C_{ob}	$V_{CB} = -10\text{ V}, I_E = 0, f = 0.1\text{ MHz}$			200	pF



Typical Characteristics



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