ELECTRICAL CHARACTERISTICS (@TA=25°C unless otherwise noted)

Chatacteristic	Symbol	Min	Max	Unit
OFF CHARACTERISTICS				
Collector-Emitter Breakdown Voltage(1) (I_C= 1.0mAdc, I_B=0)	$V_{(BR)CEO}$	140	-	Vdc
Collector-Base Breakdown Voltage (I_C= 100uAdc, I_E= 0)	$V_{(BR)CBO}$	160	-	Vdc
Emitter-Base Breakdown Voltage (I_E= 10uAdc, I_C= 0)	$V_{(BR)EBO}$	6.0	-	Vdc
Collector Cutoff Current (V_{CB}= 100Vdc, I_E= 0) (V_{CB}= 100Vdc, I_E= 0, T_A= 100°C)	I_{CBO}	- -	100 100	nAdc uAdc
Emitter Cutoff Current (V_{EB}= 4.0Vdc, I_C= 0)	I_{EBO}	-	50	nAdc
ON CHARACTERISTICS				
DC Current Gain (I_C= 1.0mAdc, V_{CE}= 5.0Vdc) (I_C= 10mAdc, V_{CE}= 5.0Vdc) (I_C= 50mAdc, V_{CE}= 5.0Vdc)	h_{FE}	60 60 20	- 250 -	-
Collector-Emitter Saturation Voltage (I_C= 10mAdc, I_B= 1.0mAdc) (I_C= 50mAdc, I_B= 5.0mAdc)	$V_{CE(sat)}$	- -	0.15 0.25	Vdc
Base-Emitter Saturation Voltage (I_C= 10mAdc, I_B= 1.0mAdc) (I_C= 50mAdc, I_B= 5.0mAdc)	$V_{BE(sat)}$	- -	1.0 1.2	Vdc

Note: Pluse Test : Pluse Width = 300mS, Duty Cycle = 2.0%

RATING AND CHARACTERISTICS CURVES (MMBT5550)

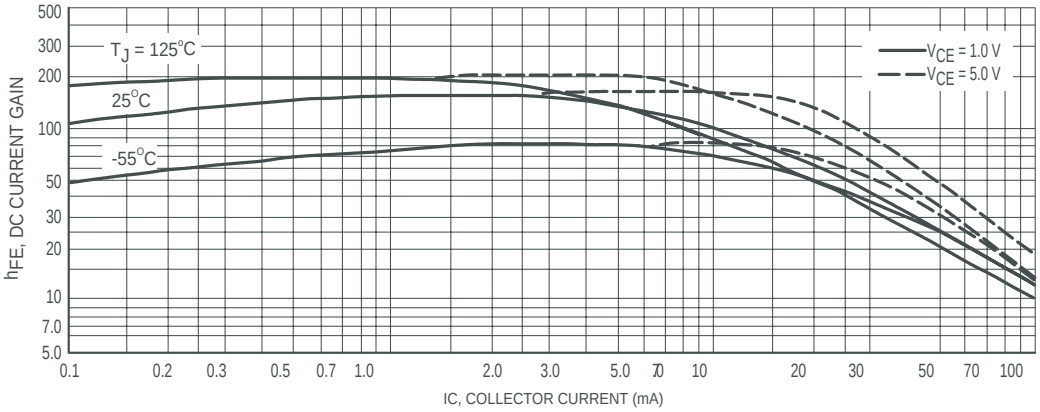

Figure 1. DC Current Gain

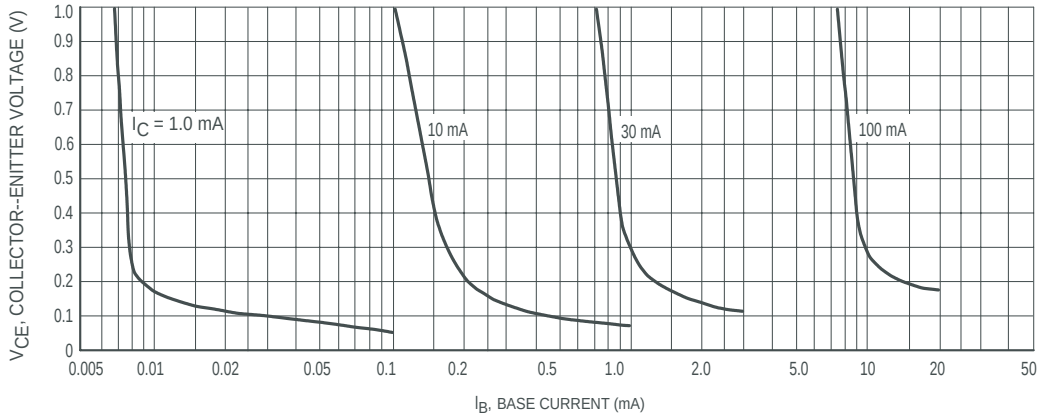

Figure 2. Collector Saturation Region

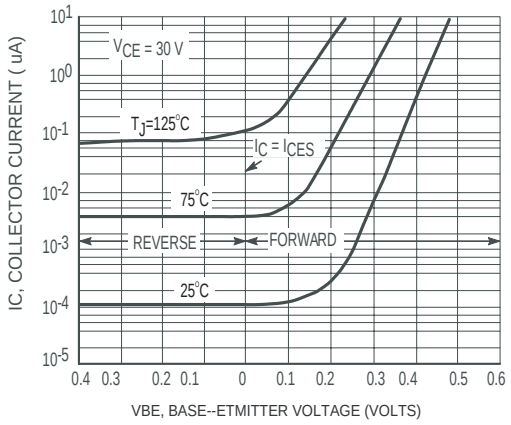

FIgure 3. Collector Cut-Off Region

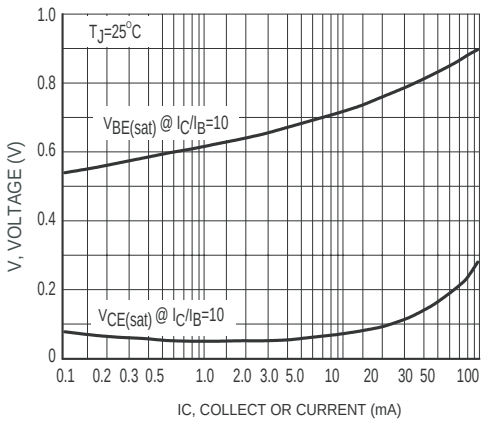

Figure 4. "On" Voltages

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