

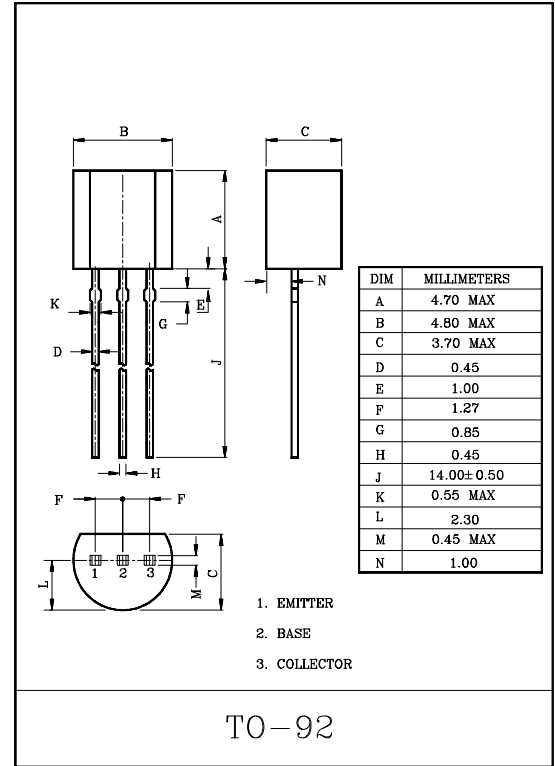
GENERAL PURPOSE APPLICATION.
DARLINGTON TRANSISTOR.

FEATURES

- Complementary to MPSA13/14.

MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage	MPSA62	V _{CBO}	-20	V
	MPSA63/64		-30	
Collector-Emitter Voltage	MPSA62	V _{CES}	-20	V
	MPSA63/64		-30	
Emitter-Base Voltage		V _{EBO}	-10	V
Collector Current		I _C	-500	mA
Collector Power Dissipation		P _C	625	mW
Junction Temperature		T _j	150	°C
Storage Temperature Range		T _{stg}	-55~150	°C



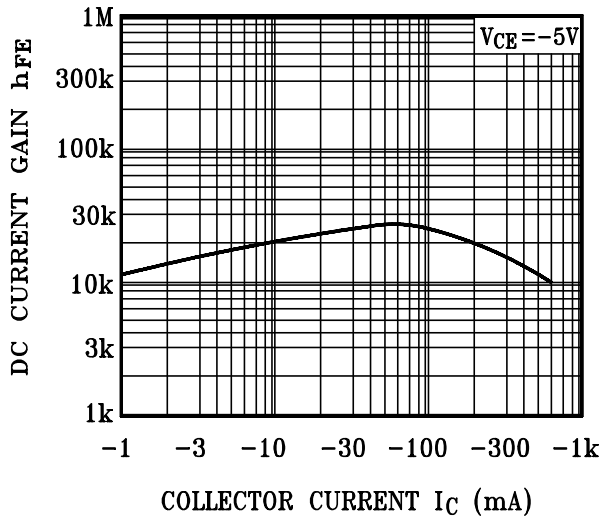
ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector-Emitter Breakdown Voltage	MPSA62	V _{(BR)CES}	I _C =-0.1mA, I _B =0	-20	-	-	V
	MPSA63/64			-30	-	-	
Collector Cut-off Current	MPSA62	I _{CBO}	V _{CB} =-15V, I _E =0	-	-	-0.1	μA
	MPSA63/64		V _{CB} =-30V, I _E =0	-	-	-	
Emitter Cut-off Current		I _{EBO}	V _{EB} =-10V, I _C =0	-	-	-0.1	μA
DC Current Gain	MPSA62	h _{FE}	I _C =-10mA, V _{CE} =-5V	20,000	-	-	
	MPSA63			5,000	-	-	
	MPSA64			10,000	-	-	
	MPSA63		I _C =-100mA, V _{CE} =-5V	10,000	-	-	
	MPSA64			20,000	-	-	
Collector-Emitter Saturation Voltage	MPSA62	V _{CE(sat)}	I _C =-10mA, I _B =-0.01mA	-	-	-1.0	V
	MPSA63/64		I _C =-100mA, I _B =-0.1mA	-	-	-1.5	
Base Emitter Voltage	MPSA62	V _{BE}	I _C =-10mA, V _{CE} =-5V	-	-	-1.4	V
	MPSA63/64		I _C =-100mA, V _{CE} =-5V	-	-	-2.0	
Current Gain Bandwidth Product		f _T	I _C =-10mA, f=100MHz V _{CE} =-5V	125	-	-	MHz

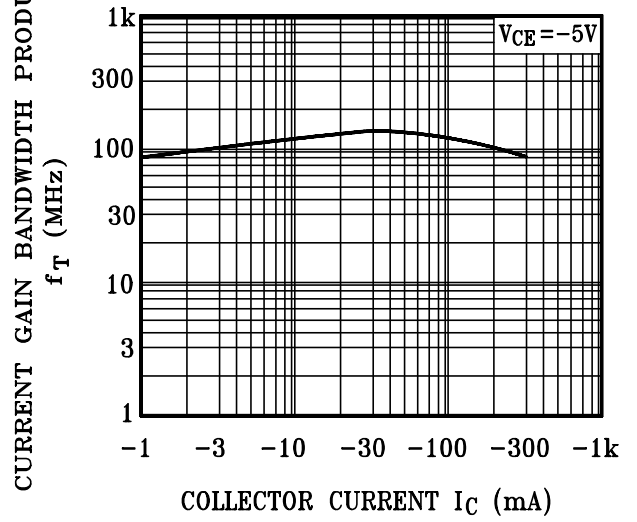
* Pulse Test : Pulse Width ≤ 300μS, Duty Cycle ≤ 2%

MPSA62/63/64

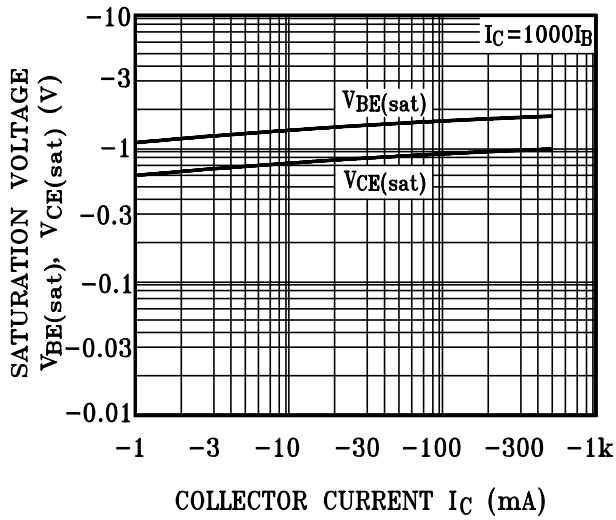
$h_{FE} - I_C$



$f_T - I_C$



$V_{BE(sat)}, V_{CE(sat)} - I_C$



$I_C - V_{BE}$

