

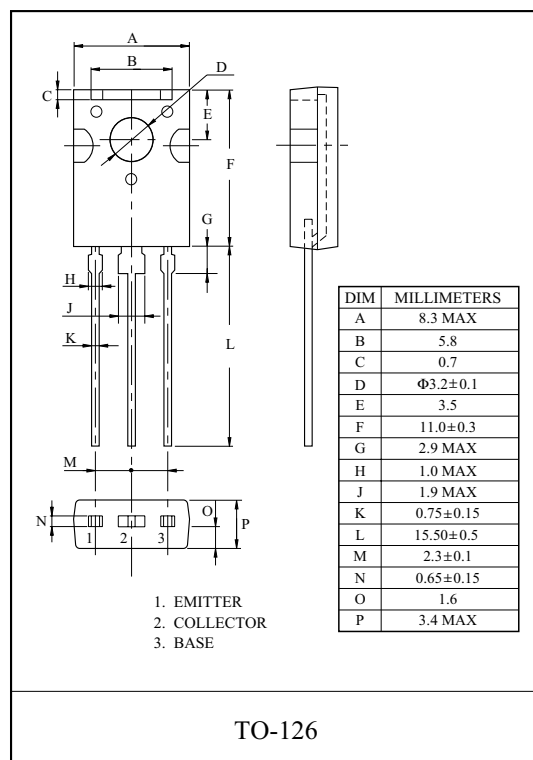
GENERAL PURPOSE DARLINGTON TRANSISTOR.

#### FEATURES

- High DC Current Gain :  $h_{FE}=3000(\text{Min.})$   
( $V_{CE}=2V, I_C=1A$ )

#### MAXIMUM RATING ( $T_a=25^\circ\text{C}$ )

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	$V_{CBO}$	80	V
Collector-Emitter Voltage	$V_{CEO}$	60	V
Emitter-Base Voltage	$V_{EBO}$	10	V
Collector Current	$I_C$	4	A
Base Current	$I_B$	0.5	A
Collector Power Dissipation ( $T_c=25^\circ\text{C}$ )	$P_C$	15	W
Junction Temperature	$T_j$	150	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	-55 ~ 150	$^\circ\text{C}$

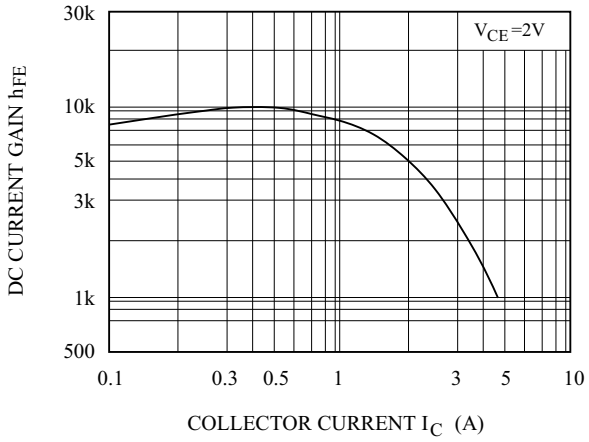


#### ELECTRICAL CHARACTERISTICS ( $T_a=25^\circ\text{C}$ )

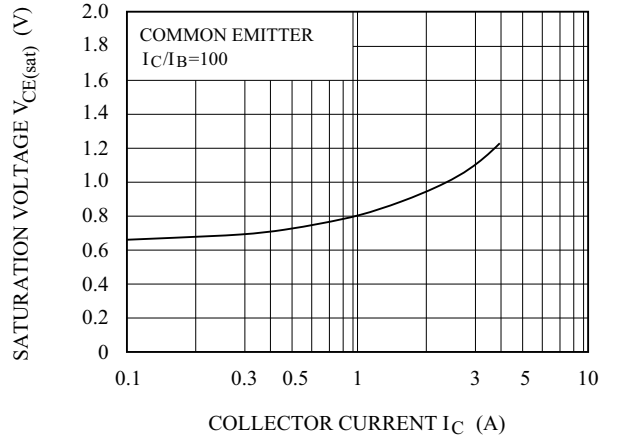
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	$I_{CBO}$	$V_{CB}=80V, I_E=0$	-	-	20	$\mu\text{A}$
Emitter Cut-off Current	$I_{EBO}$	$V_{EB}=10V, I_C=0$	-	-	100	$\mu\text{A}$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=10\text{mA}, I_B=0$	60	-	-	V
DC Current Gain	$h_{FE(1)}$	$V_{CE}=2V, I_C=1A$	3000	-	-	
	$h_{FE(2)}$	$V_{CE}=2V, I_C=3A$	1000	-	-	
Saturation Voltage	Collector-Emitter	$V_{CE(sat)}$	-	-	1.5	V
	Base-Emitter	$V_{BE(sat)}$	-	-	2.0	

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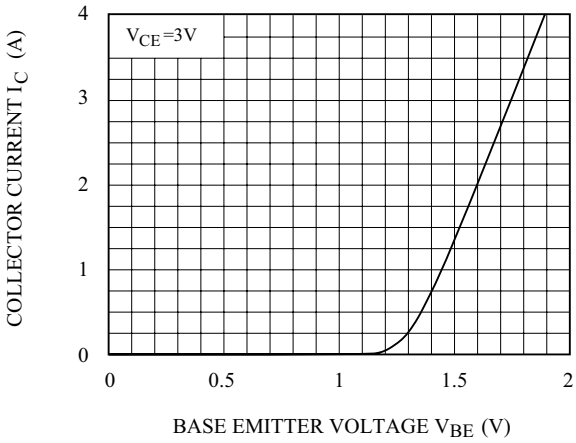
$h_{FE} - I_C$



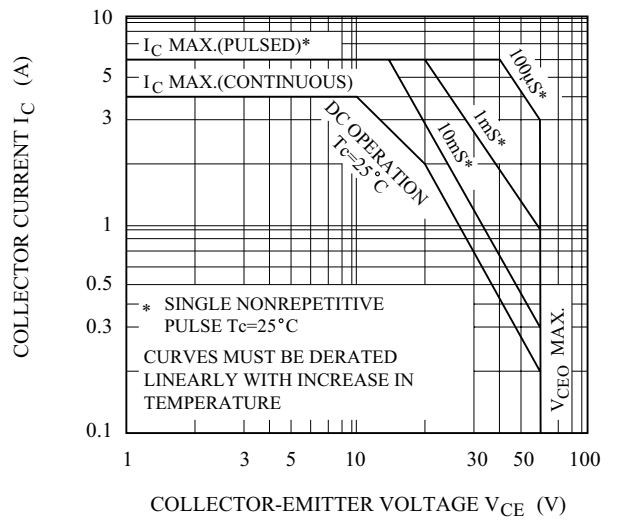
$V_{CE(sat)} - I_C$



$I_C - V_{BE}$



SAFE OPERATING AREA



$P_C - T_a$

