

RoHS Compliant Product

A suffix of "-C" specifies halogen & lead-free

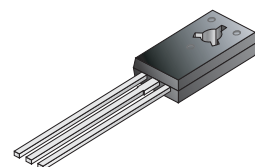
## FEATURES

- Power Dissipation

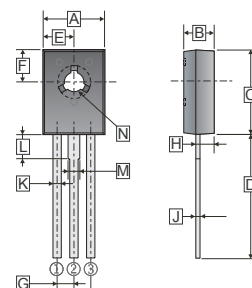
TO-126

## CLASSIFICATION OF $h_{FE}$

Product-Rank	D882-R	D882-O	D882-Y	D882-GR
Range	60~120	100~200	160~320	200~400



① Emitter  
② Collector  
③ Base



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	7.40	7.80	H	1.10	1.50
B	2.50	2.90	J	0.45	0.60
C	10.60	11.00	K	0.66	0.86
D	15.30	15.70	L	2.10	2.30
E	3.70	3.90	M	1.17	1.37
F	3.90	4.10	N	3.00	3.20
G	2.29 TYP.				

## ABSOLUTE MAXIMUM RATINGS ( $T_A = 25^\circ\text{C}$ unless otherwise specified)

PARAMETER	SYMBOL	RATING	UNIT
Collector to Base Voltage	$V_{CBO}$	40	V
Collector to Emitter Voltage	$V_{CEO}$	30	V
Emitter to Base Voltage	$V_{EBO}$	6	V
Collector Current - Continuous	$I_C$	3	A
Collector Power Dissipation	$P_C$	1.25	W
Junction, Storage Temperature	$T_J, T_{STG}$	150, -55~150	$^\circ\text{C}$

## ELECTRICAL CHARACTERISTICS ( $T_A = 25^\circ\text{C}$ unless otherwise specified)

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT	TEST CONDITION
Collector to Base Breakdown Voltage	$V_{(BR)CBO}$	40	-	-	V	$I_C=100 \mu\text{A}, I_E=0$
Collector to Emitter Breakdown Voltage	$V_{(BR)CEO}$	30	-	-	V	$I_C=10 \text{ mA}, I_B=0$
Emitter to Base Breakdown Voltage	$V_{(BR)EBO}$	5	-	-	V	$I_E=100 \mu\text{A}, I_C=0$
Collector Cut-Off Current	$I_{CBO}$	-	-	1	$\mu\text{A}$	$V_{CB}=40 \text{ V}, I_E=0$
Collector Cut-Off Current	$I_{CEO}$	-	-	10	$\mu\text{A}$	$V_{CE}=30 \text{ V}, I_B=0$
Emitter Cut-Off Current	$I_{EBO}$	-	-	1	$\mu\text{A}$	$V_{EB}=6 \text{ V}, I_C=0$
DC Current Gain	$h_{FE}$	60	-	400		$V_{CE}=2 \text{ V}, I_C=1 \text{ A}$
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	-	-	0.5	V	$I_C=2 \text{ A}, I_B=0.2 \text{ A}$
Base to Emitter Saturation Voltage	$V_{BE(sat)}$	-	-	1.5	V	$I_C=2 \text{ A}, I_B=0.2 \text{ A}$
Transition Frequency	$f_T$	-	90	-	MHz	$V_{CE}=5 \text{ V}, I_C=0.1 \text{ A}, f=10 \text{ MHz}$

**CHARACTERISTIC CURVES**

