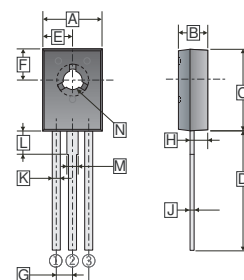
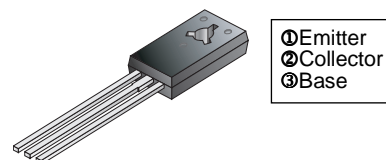


RoHS Compliant Product
A suffix of "-C" specifies halogen and lead free

FEATURES

- High Current
- Amplifier and Switching Applications

TO-126



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	Ratings	Unit
Collector - Base Voltage	V_{CBO}	-32	V
Collector - Emitter Voltage	V_{CEO}	-32	V
Emitter - Base Voltage	V_{EBO}	-5	V
Collector Current -Continuous	I_{C}	-4	A
Collector Power Dissipation	P_{C}	1.25	W
Maximum Junction to Ambient	$R_{\theta\text{JA}}$	100	$^{\circ}\text{C} / \text{W}$
Junction, Storage Temperature	$T_{\text{J}}, T_{\text{STG}}$	150, -55 ~ 150	$^{\circ}\text{C}$

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

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Collector - Base Breakdown Voltage	$V_{(\text{BR})\text{CBO}}$	-32	-	-	V	$I_{\text{C}} = -0.1\text{mA}, I_{\text{E}} = 0$
Collector-emitter sustaining voltage ¹	$V_{\text{CEO}(\text{SUS})}$	-32	-	-	V	$I_{\text{C}} = -100\text{mA}, I_{\text{B}} = 0$
Emitter - Base Breakdown Voltage	$V_{(\text{BR})\text{EBO}}$	-5	-	-	V	$I_{\text{C}} = 0, I_{\text{E}} = -0.1\text{mA}$
Collector Cut - Off Current	I_{CBO}	-	-	-100	μA	$V_{\text{CB}} = -32\text{V}, I_{\text{E}} = 0$
Emitter Cut-Off Current	I_{EBO}	-	-	-1	mA	$V_{\text{EB}} = -5\text{V}, I_{\text{C}} = 0$
DC Current Gain ¹	h_{FE}	40	-	-		$V_{\text{CE}} = -5\text{V}, I_{\text{C}} = -10\text{mA}$
		85	-	375		$V_{\text{CE}} = -1\text{V}, I_{\text{C}} = -500\text{mA}$
		50	-	-		$V_{\text{CE}} = -1\text{V}, I_{\text{C}} = -2\text{A}$
Collector - Emitter Saturation Voltage ¹	$V_{\text{CE}(\text{sat})}$	-	-	-0.5	V	$I_{\text{C}} = -2\text{A}, I_{\text{B}} = -0.2\text{A}$
Base - Emitter Voltage ¹	V_{BE}	-	-	-1	V	$V_{\text{CE}} = -1\text{V}, I_{\text{C}} = -2\text{A}$
Transition frequency	f_{T}	3	-	-	MHz	$V_{\text{CE}} = -1\text{V}, I_{\text{C}} = -250\text{mA}$

Note:

1. Pulse test