

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

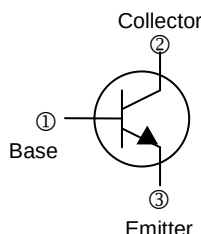
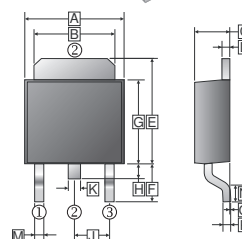
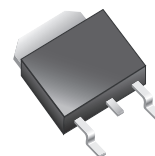
FEATURES

- Monolithic Construction With Built-in Base-Emitter Resistors
- Straight Lead Version in Plastic Sleeves ("-L" Suffix)
- Designed for General Purpose Amplifier and Low Speed Switching Applications.

PACKAGE INFORMATION

Package	MPQ	Leader Size
TO-252	2.5K	13 inch

TO-252 (D-Pack)



REF.	Min.	Max.	REF.	Min.	Max.
A	6.35	6.90	J	2.30 REF.	
B	4.95	5.50	K	0.64	1.14
C	2.10	2.50	M	0.50	1.14
D	0.43	0.9	N	1.3	1.8
E	6.0	7.5	O	0	0.13
F	2.80 REF.		P	0.58 REF.	
G	5.40	6.40			
H	0.60	1.20			

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

Parameter	Symbol	Ratings	Unit
Collector to Base Voltage	V_{CBO}	100	V
Collector to Emitter Voltage	V_{CEO}	100	V
Emitter to Base Voltage	V_{EBO}	5	V
Collector Current	I_C	6	A
Collector Power Dissipation	P_C	1.25	W
Junction and Storage Temperature	T_J, T_{STG}	150, -65 ~ 150	$^\circ\text{C}$

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

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Collector-base breakdown voltage	$V_{(BR)CBO}$	100	-	-	V	$I_C=100\mu\text{A}, I_E=0$
Collector-emitter breakdown voltage	$V_{CEO(SUS)}$	100	-	-	V	$I_C=30\text{mA}, I_B=0$
Emitter-base breakdown voltage	$V_{(BR)EBO}$	5	-	-	V	$I_E=100\mu\text{A}, I_C=0$
Collector cut-off current	I_{CEO}	-	-	50	μA	$V_{CB}=60\text{V}, I_E=0$
Emitter cut-off current	I_{EBO}	-	-	0.5	mA	$V_{EB}=5\text{V}, I_C=0$
DC current gain ¹	h_{FE}	30	-	-		$V_{CE}=4\text{V}, I_C=0.3\text{A}$
		15	-	75		$V_{CE}=4\text{V}, I_C=3\text{A}$
Collector-emitter saturation voltage ¹	$V_{CE(sat)}$	-	-	1.5	V	$I_C=6\text{A}, I_B=0.6\text{A}$
Base-emitter saturation voltage ¹	$V_{BE(on)}$	-	-	2	V	$V_{CE}=4\text{V}, I_C=6\text{A}$
Transition frequency	f_T	3	-	-	MHz	$V_{CE}=10\text{V}, I_C=500\text{mA}, f=1\text{MHz}$

CHARACTERISTIC CURVES

