

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

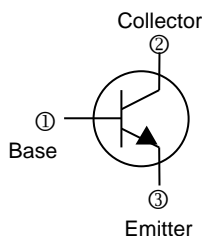
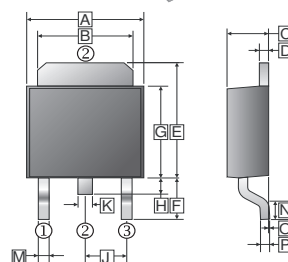
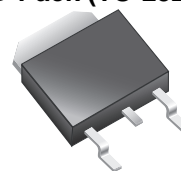
FEATURES

- Designed for general
- Excellent DC Current Gain Characteristics

PACKAGE INFORMATION

Package	MPQ	Leader Size
TO-252	2.5K	13 inch

D-Pack (TO-252)



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	6.35	6.8	J	2.30 REF.	
B	5.20	5.50	K	0.64	0.90
C	2.15	2.40	M	0.50	1.1
D	0.45	0.58	N	0.9	1.65
E	6.8	7.5	O	0	0.15
F	2.40	3.0	P	0.43	0.58
G	5.40	6.25			
H	0.64	1.20			

ABSOLUTE MAXIMUM RATINGS (T_A=25°C unless otherwise specified)

Parameter	Symbol	Ratings	Unit
Collector to Base Voltage	V _{CB0}	100	V
Collector to Emitter Voltage	V _{CEO}	100	V
Emitter to Base Voltage	V _{EBO}	5	V
Collector Current -Continuous	I _C	3	A
Collector Power Dissipation	P _C	1.25	W
Junction and Storage Temperature Range	T _J , T _{STG}	150 , -55~150	°C

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Collector-base breakdown voltage	V _{(BR)CBO}	100	-	-	V	I _C =1mA, I _E =0
Collector-emitter breakdown voltage	V _{CEO(SUS)}	100	-	-	V	I _C =30mA, I _B =0
Emitter-base breakdown voltage	V _{(BR)EBO}	5	-	-	V	I _E =1mA, I _C =0
Collector cut-off current	I _{CES}	-	-	20	µA	V _{CE} =100V, V _{EB} =0
Collector cut-off current	I _{CEO}	-	-	50	µA	V _{CE} =60V, I _B =0
Emitter cut-off current	I _{EBO}	-	-	1	mA	V _{EB} =5V, I _C =0
DC current gain	h _{FE}	25	-	-		V _{CE} =4V, I _C =1A
		15	-	75		V _{CE} =4V, I _C =3A
Collector-emitter saturation voltage	V _{CE(sat)}	-	-	1.2	V	I _C =3A, I _B =375mA
Base-emitter voltage	V _{BE(ON)}	-	-	1.8	V	V _{CE} =4V, I _C =3A
Transition frequency	f _t	3	-	-	MHz	V _{CE} =10V, I _C =500mA, f _T =1KHz

Note:

1. Pulse Test: PW ≤ 300µs, Duty Cycle ≤ 2%.

TYPICAL CHARACTERISTICS

Static Characteristic

