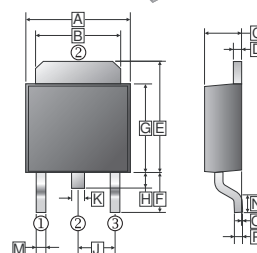
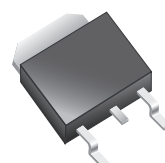


RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

DESCRIPTION

- Designed for General Purpose Amplifier and Low Speed Switching Applications
- Lead Formed for Surface Mount Applications in Plastic Sleeves (No Suffix)
- Straight Lead Version in Plastic Sleeves ("-1" Suffix)
- Lead Formed Version in 16mm Tape and Reel ("T4" Suffix)
- Electrically Similar to Popular TIP41 and TIP42 Series
- Monolithic Construction With Built-in Base-Emitter Resistors

TO-252 (D-Pack)

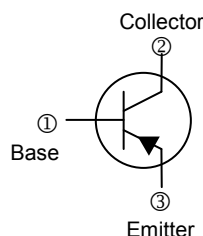


PACKAGE INFORMATION

Package	MPQ	Leader Size
TO-252	2.5K	13 inch

ORDER INFORMATION

Part Number	Type
MJD42C	Lead (Pb)-free
MJD42C-C	Lead (Pb)-free and Halogen-free



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	6.3	6.9	J	2.3 REF.	
B	4.95	5.53	K	0.89 REF.	
C	2.1	2.5	M	0.45	1.14
D	0.4	0.9	N	1.55 Typ.	
E	6	7.7	O	0	0.15
F	2.90 REF.		P	0.58 REF.	
G	5.4	6.4			
H	0.6	1.2			

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

Parameter	Symbol	Ratings	Unit
Collector-Base Voltage	V _{CBO}	-100	V
Collector-Emitter Voltage	V _{CEO}	-100	V
Emitter-Base Voltage	V _{EBO}	-5	V
Collector Current-Continuous	I _C	-6	A
Collector Power Dissipation	P _C	1.25	W
Junction and Storage Temperature	T _J , T _{STG}	150, -65~150	°C

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

Parameter	Symbol	Min.	Max.	Unit	Test Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	-100	-	V	I _C = -100μA, 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 = -100μA, I _C =0
Collector Cut-off Current	I _{CEO}	-	-50	uA	V _{CB} = -60V, I _E =0
Emitter Cut-off Current	I _{EBO}	-	-0.5	mA	V _{EB} = -5V, I _C =0
DC Current Gain	h _{FE(1)}	30	-		V _{CE} = -4V, I _C = -0.3A
	h _{FE(2)}	15	75		V _{CE} = -4V, I _C = -3A
Collector-Emitter Saturation Voltage	V _{CE(Sat)}	-	-1.5	V	I _C = -6A, I _B = -0.6A
Base-Emitter Voltage	V _{BE}	-	-2	V	V _{CE} = -4V, I _C = -6A
Transition Frequency	f _T	3	-	MHZ	V _{CE} = -10V, I _C = -500mA, f=1MHz

CHARACTERISTIC CURVES

