



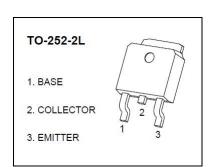
JIANGSU CHANGJING ELECTRONICS TECHNOLOGY CO., LTD.

AD-MJD32C Plastic-Encapsulated Transistor

AD-MJD32C Transistor (PNP)

FEATURES

- 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 16 mm tape and reel ("T4" Suffix)
- Electrically similar to popular AD-TIP31 and AD-TIP32 series
- AEC-Q101 qualified

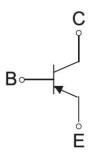


MARKING



MJD32C = Device code XXXX = Date code

EQUIVALENT CIRCUIT



MAXIMUM RATINGS ($T_j = 25$ °C unless otherwise specified)

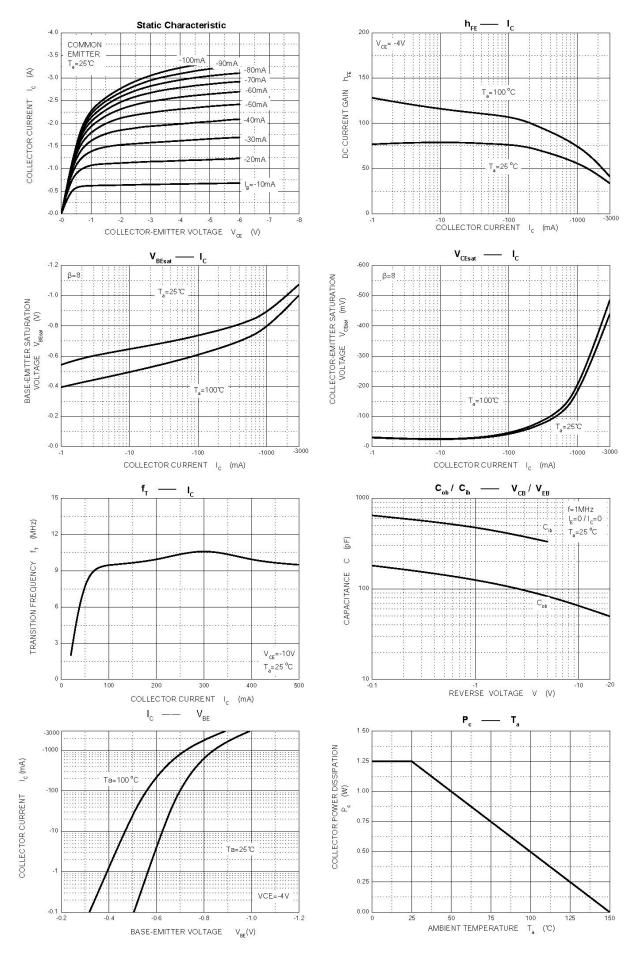
Parameter	Symbol	Value	Unit
Collector-base voltage	V _{CBO}	-100	V
Collector-emitter voltage	V _{CEO}	-100	V
Emitter-base voltage	V _{EBO}	-5	V
Collector current-continuous	Ic	-3	Α
Thermal resistance-junction to air	R _{θJC}	100	°C/W
Collector power dissipation	Pc	1.25	W
Operating junction and storage temperature range	T _j , T _{stg}	-55 ~ 150	°C

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

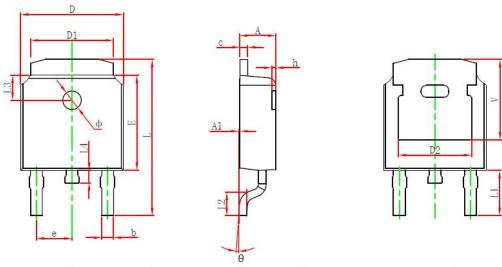
Parameter	Symbol	Test condition	Min	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	$I_C = -1 \text{mA}, I_E = 0 \text{A}$	-100	-	V
Collector-emitter breakdown voltage *	V _{CEO(SUS)}	$I_C = -30 \text{mA}, I_B = 0 \text{A}$	-100	-	V
Emitter-base breakdown voltage	V _{(BR)EBO}	$I_E = -1 \text{mA}, I_C = 0 \text{A}$	-5	-	V
Collector cut-off current	I _{CES}	V _{CE} = -100V, V _{EB} = 0V	-	-20	μA
Collector cut-off current	I _{CEO}	V _{CE} = -60V, I _B = 0A	-	-50	μA
Emitter cut-off current	I _{EBO}	$V_{EB} = -5V, I_{C} = 0A$	-	-1	mA
OC ourrent gain	h _{FE}	$V_{CE} = -4V, I_{C} = -1A$	25	-	-
DC current gain	IIFE	$V_{CE} = -4V, I_{C} = -3A$	15	75	-
Collector-emitter saturation voltage	V _{CE(sat)}	$I_C = -3A$, $I_B = -0.375A$	-	-1.2	V
Base-emitter saturation voltage	$V_{BE(on)}$	$V_{CE} = -4V, I_{C} = -3A$	-	-1.8	V
Transition frequency f _T		$V_{CE} = -10V$, $I_C = -0.5A$, $f_O = 1MHz$	3	-	MHz

^{*} Pulse Test: PW≤300µs, Duty Cycle≤2%.

TYPICAL CHARACTERISTICS

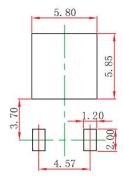


TO-252-2L PACKAGE OUTLINE DIMENSIONS



Cb.al	Dimensions	In Millimeters	Dimensions In Inches		
Symbol	Min.	Max.	Min.	Max.	
Α	2.200	2.400	0.087	0.094	
A1	0.000	0.127	0.000	0.005	
b	0.635	0.770	0.025	0.030	
С	0.460	0.580	0.018	0.023	
D	6.500	6.700	0.256	0.264	
D1	5.100	5.460	0.201	0.215	
D2	4.830	REF.	0.190	REF.	
E	6.000	6.200	0.236	0.244	
е	2.186	2.386	0.086	0.094	
L	9.712	10.312	0.382	0.406	
L1	2.900	REF.	0.114	REF.	
L2	1.400	1.700	0.055	0.067	
L3	1.600	REF.	0.063	REF.	
L4	0.600	1.000	0.024	0.039	
Φ	1.100	1.300	0.043	0.051	
θ	0°	8°	0°	8°	
h	0.000	0.300	0.000	0.012	
V	5.250	REF.	0.207	REF.	

TO-252-2L SUGGESTED PAD LAYOUT

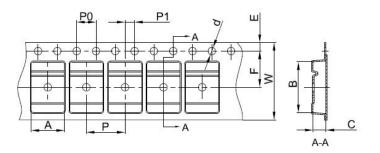


Note:

- 1. Controlling dimension in millimeters.
- 2. General tolerance: ±0.05mm.
- 3. The pad layout is for reference purpose only.

TO-252-2L TAPE AND REEL

TO-252 Embossed Carrier Tape

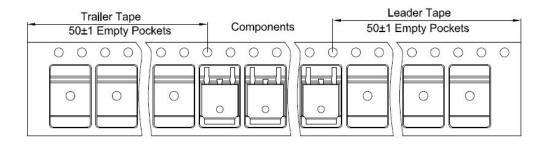


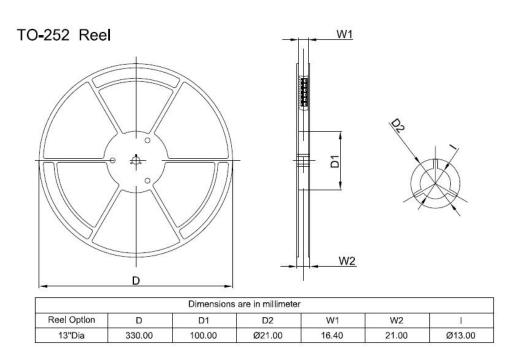
Packaging Description:

TO-252 parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. These reeled parts in standard option are shipped with 25,00 units per 13" or 33.0 cm diameter reel. The reels are clear in color and is made of polystyrene plastic (anti-static coated).

Dimensions are in millimeter										
Pkg type	Α	В	С	d	E	F	P0	Р	P1	W
TO-252	6,90	10,50	2.70	Ø1.55	1.75	7,50	4.00	8,00	2,00	16,00

TO-252 Tape Leader and Trailer





	REEL	Reel Size	Box	Box Slze(mm)	Carton	Carton Slze(mm)	G.W.(kg)
ĺ	2,500 pcs	13Inch	2,500 pcs	340×336×29	25,000 pcs	353×346×365	

PUBLISHED BY

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