

JIANGSU CHANGJING ELECTRONICS TECHNOLOGY CO., LTD

TO-252-2L Plastic-Encapsulate Transistors

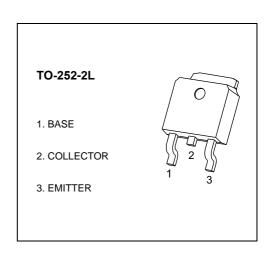
MJD127 TRANSISTOR (PNP)

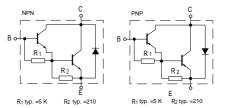
FEATURES

- High DC Current Gain
- Electrically Similar to Popular TIP127
- Built-in a Damper Diode at E-C

MAXIMUM RATINGS (Ta=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	-100	V
V _{CEO}	Collector-Emitter Voltage	-100	V
V _{EBO}	Emitter-Base Voltage	-5	V
Ic	Collector Current -Continuous	-8	Α
Pc	Collector Power Dissipation	1.5	W
T_J, T_{stg}	Operation Junction and Storage Temperature Range	-55-150	℃





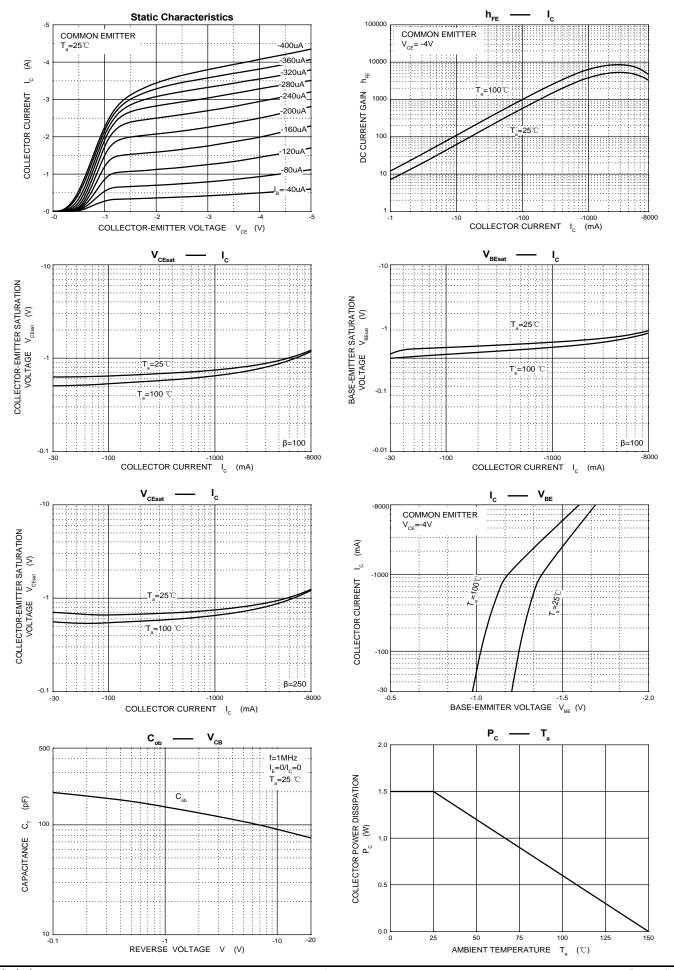
ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =-1mA,I _E =0	-100			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =-30mA,I _B =0	-100			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	I _E =-10mA,I _C =0	-5			V
Collector cut-off current	I _{CBO}	V _{CB} =-100V,I _E =0			-10	μΑ
Collector-emitter cut-off current	I _{CEO}	Vce=-50V,I _B =0			-10	μA
Emitter cut-off current	I _{EBO}	V _{EB} =-5V,I _C =0			-2	mA
DC ourrent gain	h _{FE(1)}	V _{CE} =-4V,I _C =-4A	1000		12000	
DC current gain	h _{FE(2)}	V _{CE} =-4V,I _C =-8A	100			
Collector emitter esturation valtage	V _{CE(sat) 1} *	I _C =-4A,I _B =-16mA			-2	V
Collector-emitter saturation voltage	V _{CE(sat) 2} *	I _C =-8A,I _B =-80mA			-4	V
Base-emitter saturation voltage	V _{BE(sat)} *	I _C =-8A,I _B =-80mA			-4.5	V
Base-emitter voltage	V _{BE} *	V _{CE} =-4V,I _C =-4A			-2.8	V
Collector output capacitance	C _{ob}	V _{CB} =-10V,I _E =0,f=0.1MHz			300	pF

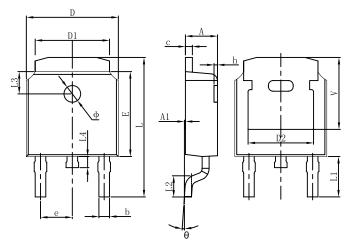
^{*}Pulse Test: Pulse Width≤380µs, Duty Cycle≤2%

Typical Characteristics

MJD127

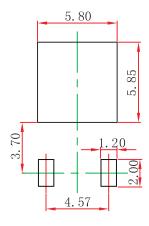


TO-252-2L Package Outline Dimensions



Cymah al	Dimensions	In Millimeters	meters 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			
Ф	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



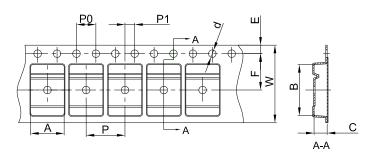
Note

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

NOTICE

JSCJ reserves the right to make modifications, enhancements, improvements, corrections or other changes without further notice to any product herein. JSCJ does not assume any liability arising out of the application or use of any product described herein.

TO-252 Embossed Carrier Tape

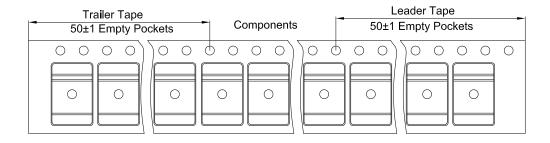


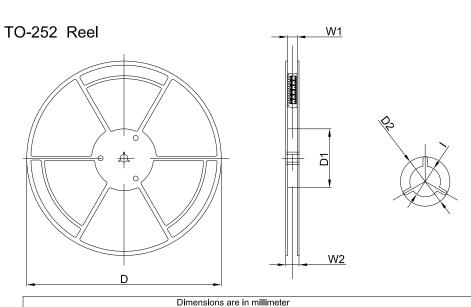
Packaging Description:

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 Option	on D	D1	D2	W1	W2	
13"Dia 330.00 100.00 Ø21.00 16.40 21.00 Ø13	13"Dia	330.00	100.00	Ø21.00	16.40	21.00	Ø13.00

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