

Features

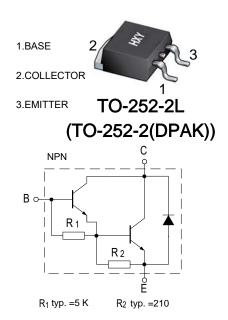
- High DC Current Gain
- Electrically Similar to Popular TIP122
- Built-in a Damper Diode at E-C

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
MJD122	TO-252-2L	MJD122	2500
	(TO-252-2(DPAK))		

Maxmim Ratings (Ta=25 unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{сво}	Collector-Base Voltage	100	V
V _{CEO}	Collector-Emitter Voltage	100	V
V _{EBO}	Emitter-Base Voltage	5	V
lc	Collector Current -Continuous	8	А
Pc	Collector Power Dissipation	1.5	W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55-150	°C

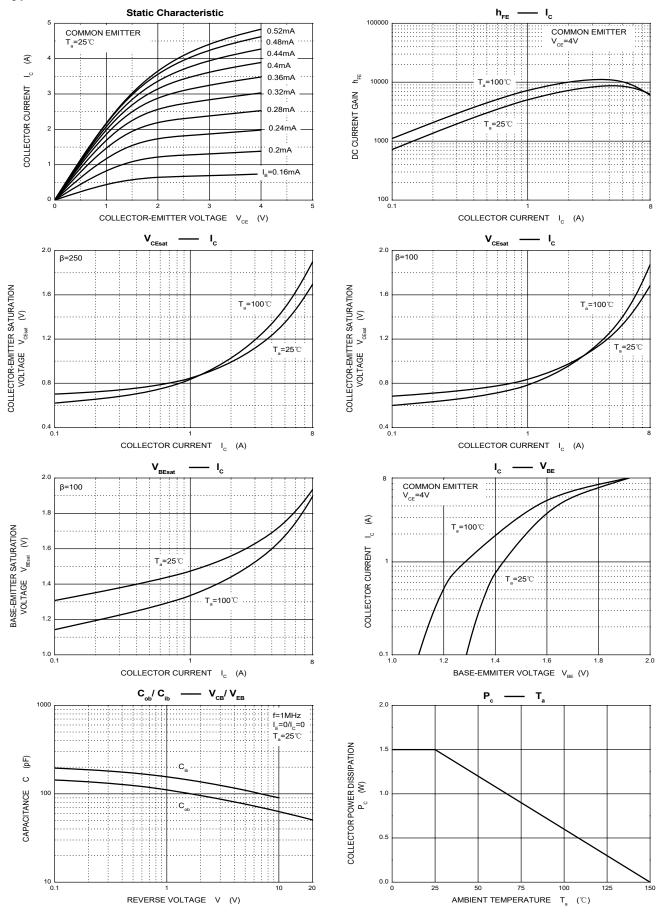


Electrcal Charcteristics (Ta=25 unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	lc=1mA,I _E =0	100			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	Ic=30mA,I _B =0	100			V
Emitter-base breakdown voltage	V _{(BR)EBO}	$I_E=3mA, I_C=0$	5			V
Collector cut-off current	I _{CBO}	V _{CB} =100V,I _E =0			10	μA
Collector-emitter cut-off current	I _{CEO}	$V_{CE}=50V,I_{E}=0$			10	μA
Emitter cut-off current	I _{EBO}	$V_{EB}=5V,I_{C}=0$			2	mA
	h _{FE(2)}	V _{CE} =4V,I _C =4A	1000		12000	
DC current gain	h _{FE(3)}	V _{CE} =4V,I _C =8A	100			
	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)}	$I_{\rm C}$ =8A, $I_{\rm B}$ =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			200	pF



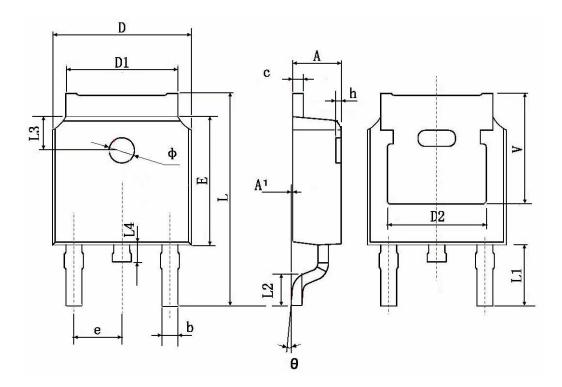
Typical Characteristics



Shenzhen HuaXuanYang Electronics CO.,LTD



TO-252-2L(TO-252-2(DPAK)) Package Information



Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min.	Max.	Min.	Max.	
A	2.200	2.400	0.087	0.094	
A1	0.000	0.127	0.000	0.005	
b	0.660	0.860	0.026	0.034	
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	0.483 TYP.		0.190 TYP.		
E	6.000	6.200	0.236	0.244	
е	2.186	2.386	0.086	0.094	
L	9.800	10.400	0.386	0.409	
L1	2.900 TYP.		0.114 TYP.		
L2	1.400	1.700	0.055	0.067	
L3	1.600 TYP.		0.063 TYP.		
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	5.350 TYP.		0.211 TYP.		



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