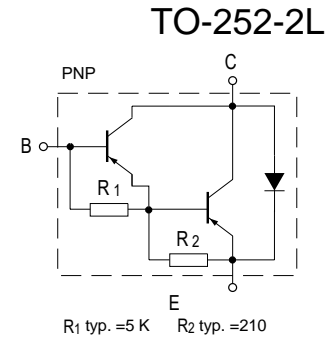
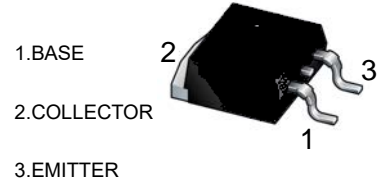


Features

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

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
MJD127	TO-252-2L	MJD127	2500



Maxmim Ratings (Ta=25 unless otherwise noted)

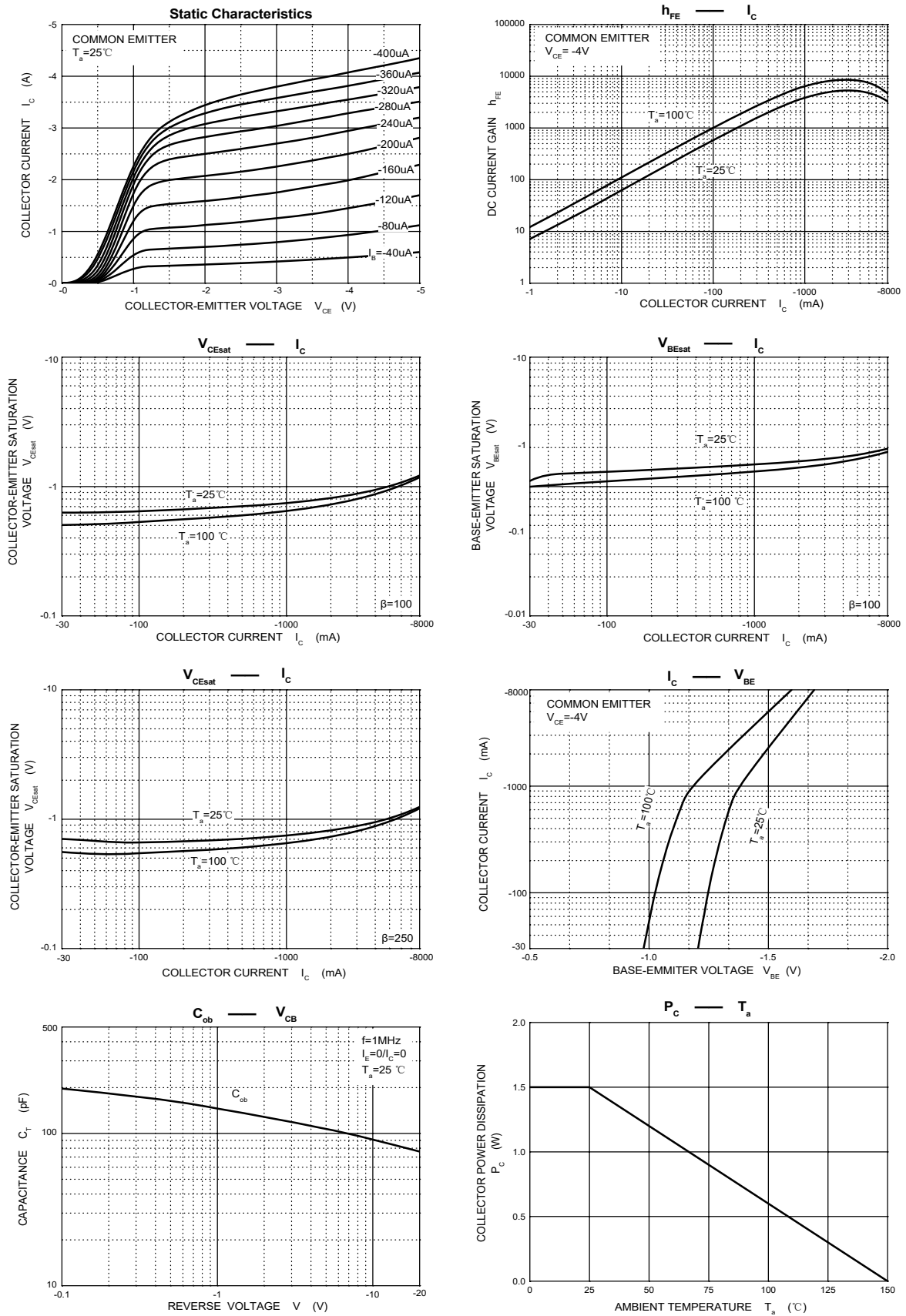
Symbol	Parameter	Value	Unit
V _{CB0}	Collector-Base Voltage	-100	V
V _{CEO}	Collector-Emitter Voltage	-100	V
V _{EBO}	Emitter-Base Voltage	-5	V
I _C	Collector Current -Continuous	-8	A
P _C	Collector Power Dissipation	1.5	W
T _J , T _{stg}	Operation Junction and Storage Temperature Range	-55-150	°C

Electrcal Charcteristics (Ta=25 unless otherwise specified)

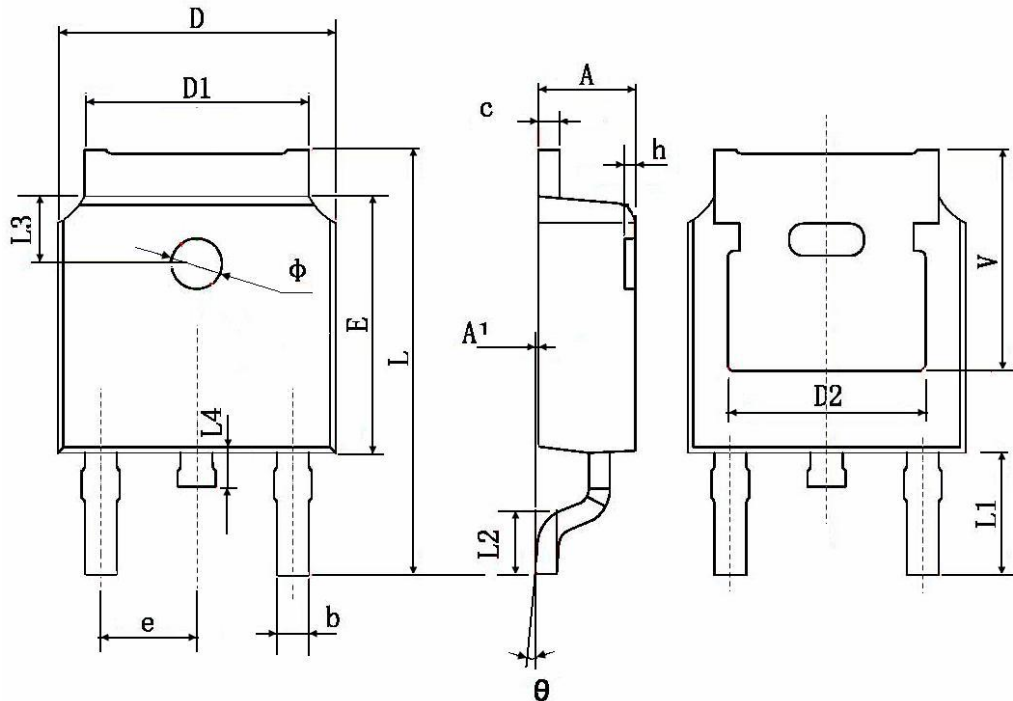
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =-1mA, I _E =0	-100			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =-30mA, I _B =0	-100			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-10mA, I _C =0	-5			V
Collector cut-off current	I _{CB0}	V _{CB} =-100V, I _E =0			-10	μA
Collector-emitter cut-off current	I _{CEO}	V _{CE} =-50V, I _B =0			-10	μA
Emitter cut-off current	I _{EBO}	V _{EB} =-5V, I _C =0			-2	mA
DC current gain	h _{FE(1)}	V _{CE} =-4V, I _C =-4A	1000		12000	
	h _{FE(2)}	V _{CE} =-4V, I _C =-8A	100			
Collector-emitter saturation voltage	V _{CE(sat)1} *	I _C =-4A, I _B =-16mA			-2	V
	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 Cycles≤2%

Typical Characteristics



TO-252-2L 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
c	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
e	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
phi	1.100	1.300	0.043	0.051
theta	0°	8°	0°	8°
h	0.000	0.300	0.000	0.012
V	5.350 TYP.		0.211 TYP.	