



### Features

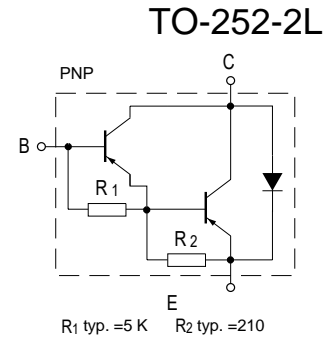
- High DC Current Gain
- Electrically Similar to Popular TIP127
- Built-in a Damper Diode at E-C

### Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
MJD127T4G	TO-252-2L	MJD127	2500

### Maxmim Ratings (Ta=25 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
$I_C$	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



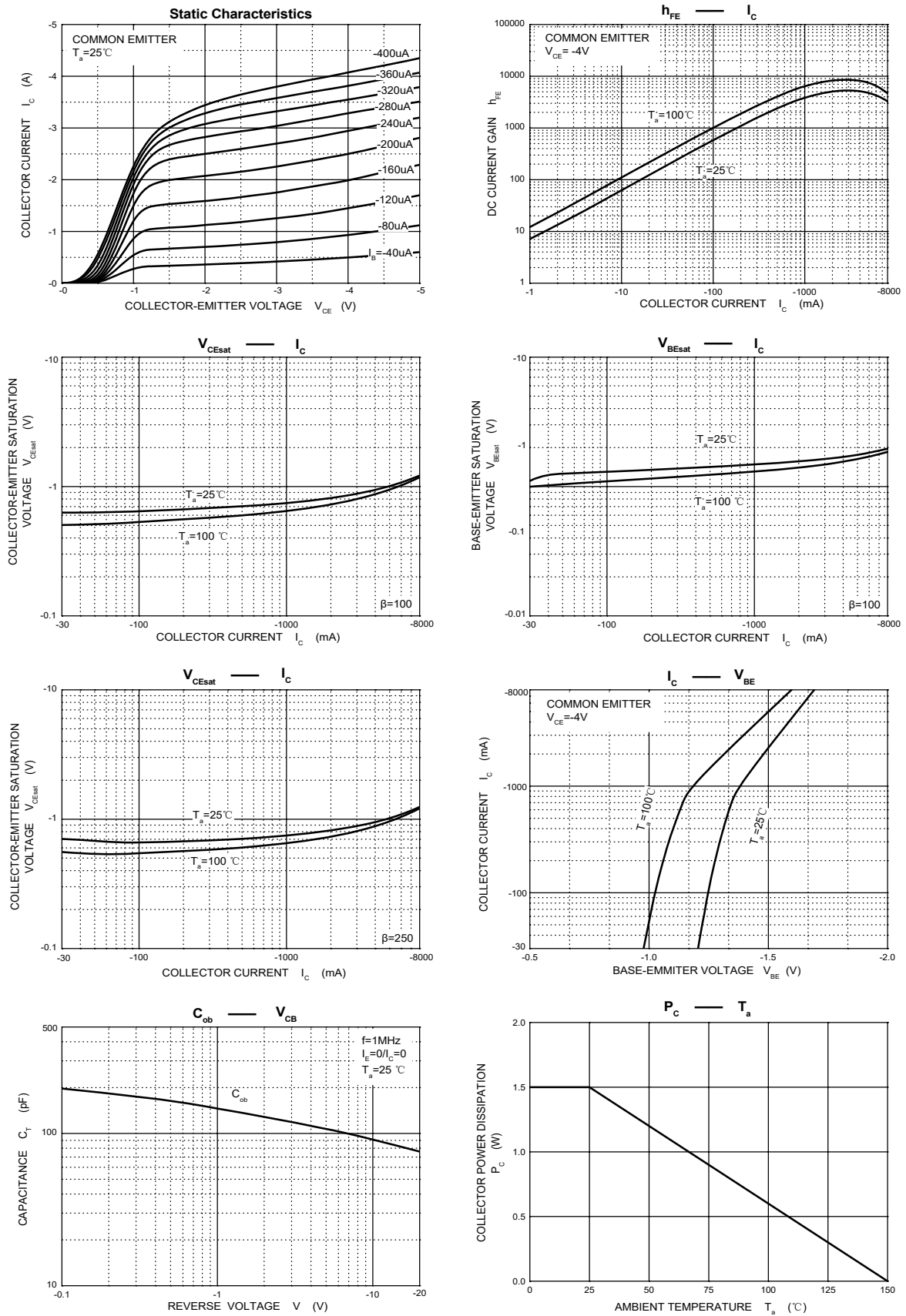
### Electrcal Charcteristics (Ta=25 unless otherwise specified)

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	$I_{CBO}$	$V_{CB}=-100V, I_E=0$			-10	$\mu A$
Collector-emitter cut-off current	$I_{CEO}$	$V_{CE}=-50V, I_B=0$			-10	$\mu A$
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 $\leq$ 380 $\mu s$ , Duty Cycles $\leq$ 2%

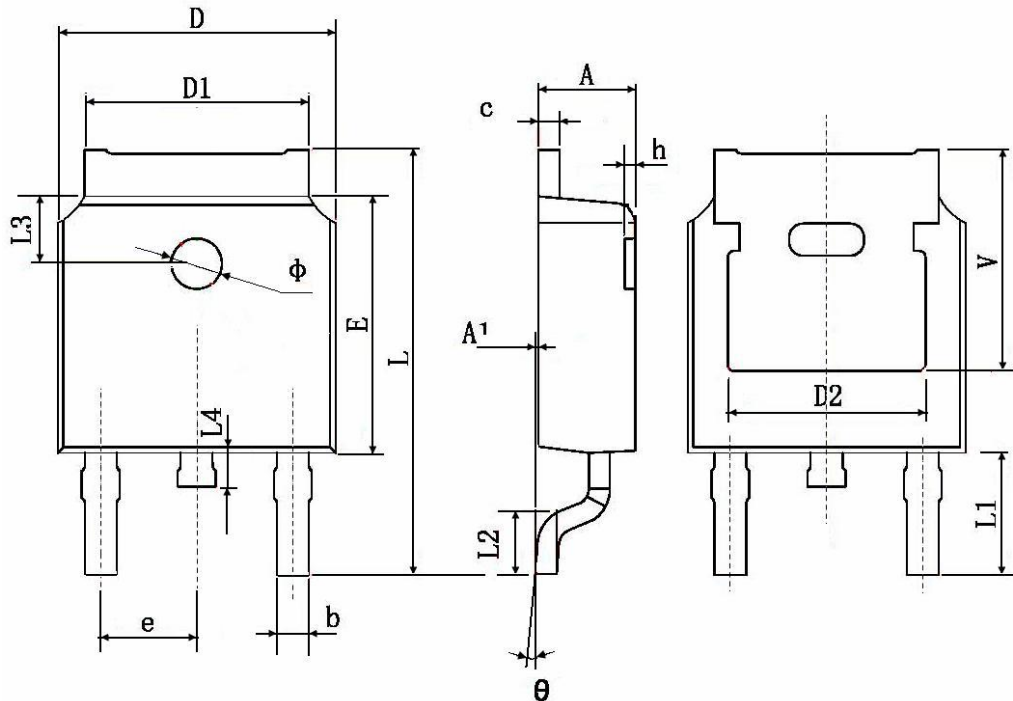


### Typical Characteristics





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
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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