

#### **Features**

Power Dissipation

1. BASE

2. COLLECTOR

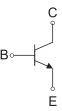
3 .EMITTER

2 1 3

**Package Marking and Ordering Information** 

Produc	ct ID	Pack	Marking	Qty(PCS)
D882		TO-252-2L TO-252-2(DPAK))	D882	2500

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



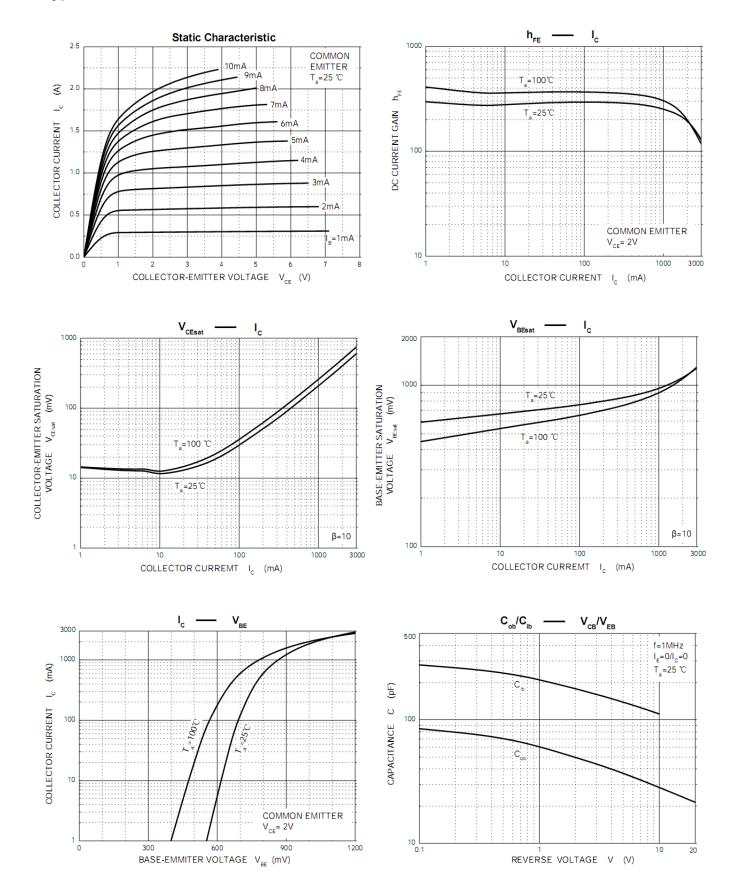
## Maximum Ratings (Ta=25°C unless otherwise noted)

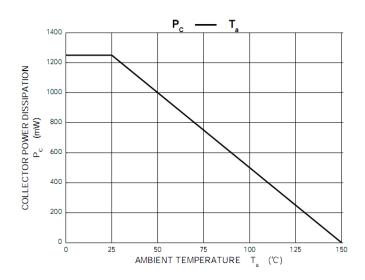
	<u> </u>		
Symbol	Parameter Value		Unit
V <sub>CBO</sub>	Collector-Base Voltage	40	V
V <sub>CEO</sub>	Collector-Emitter Voltage	30	V
V <sub>EBO</sub>	Emitter-Base Voltage	6	V
Ic	Collector Current -Continuous	3	Α
Pc	Collector Power Dissipation	1.25	W
$T_J, T_{stg}$	Operation Junction and Storage Temperature Range	-55-150	°C

### **Electrical Characteristics(Ta=25°C unless otherwise specified)**

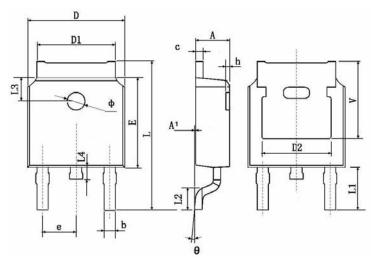
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V(BR) <sub>CBO</sub>	$I_C = 100 \mu A, I_E = 0$	40			V
Collector-emitter breakdown voltage	V(BR) <sub>CEO</sub>	I <sub>C</sub> = 10mA, I <sub>B</sub> =0	30			V
Emitter-base breakdown voltage	V(BR) <sub>EBO</sub>	I <sub>E</sub> = 100μΑ, I <sub>C</sub> =0	6			V
Collector cut-off current	I <sub>CBO</sub>	V <sub>CB</sub> = 40 V, I <sub>E</sub> =0			1	μA
Collector cut-off current	I <sub>CEO</sub>	V <sub>CE</sub> = 30 V, I <sub>B</sub> =0			10	μΑ
Emitter cut-off current	I <sub>EBO</sub>	V <sub>EB</sub> = 6 V, I <sub>C</sub> =0			1	μA
DC current gain	h <sub>FE</sub>	V <sub>CE</sub> = 2 V, I <sub>C</sub> = 1A	160		320	
Collector-emitter saturation voltage	V <sub>CE (sat)</sub>	I <sub>C</sub> = 2A, I <sub>B</sub> = 0.2 A			0.5	V
Base-emitter saturation voltage	V <sub>BE (sat)</sub>	I <sub>C</sub> = 2A, I <sub>B</sub> = 0.2 A			1.5	V
Transition frequency	f⊤	V <sub>CE</sub> = 5V, I <sub>C</sub> =0.1A f =10MHz		90		MHz

### **Typical Characteristics**





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



Symbol	Dimensions	In Millimeters	Dimensions In Inches		
	Min.	Max.	Min.	Max.	
А	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	
Ф	1.100	1.300	0.043	0.051	
θ	0°	8°	0°	8°	
h	0.000	0.300	0.000	0.012	
V	5.350 TYP.		0.211 TYP.		

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