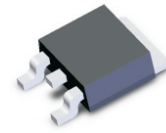


D882M-G

RoHS Device

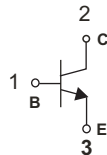


Features

- Power Dissipation
- High collector current.
- High current gain.
- Low collector-emitter saturation voltage.

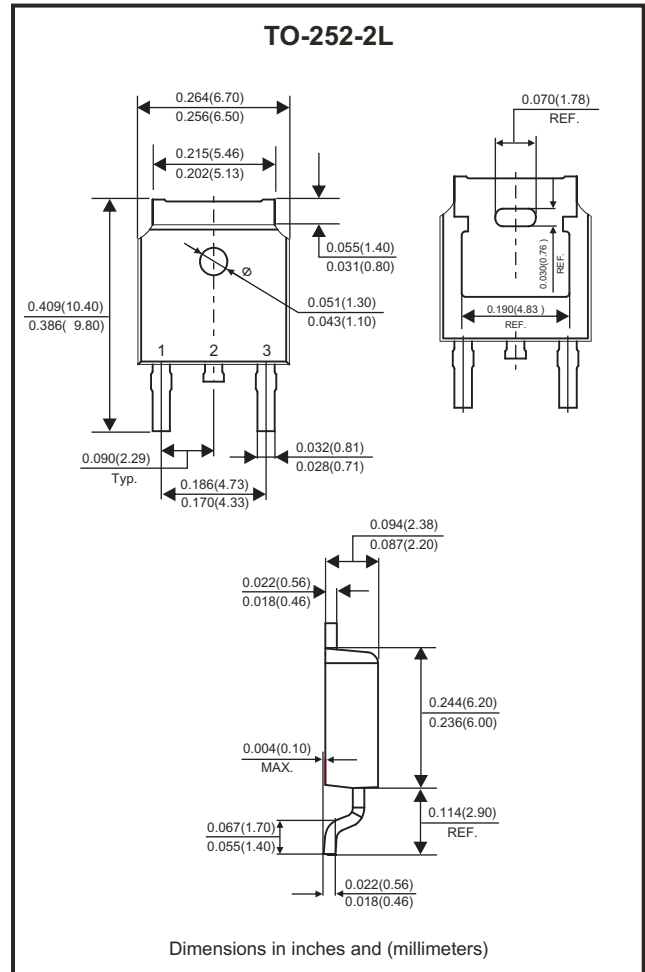
Diagram

- 1. BASE
- 2. COLLECTOR
- 3. EMITTER



Maximum Ratings (at $T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Value	Unit
Collector-base voltage	V_{CBO}	40	V
Collector-emitter voltage	V_{CEO}	30	V
Emitter-base voltage	V_{EBO}	6	V
Collector current-continuous	I_C	3	A
Collector power dissipation	P_C	1.25	W
Junction temperature range	T_J	150	$^\circ\text{C}$
Storage temperature range	T_{STG}	-55 to +150	$^\circ\text{C}$



Electrical Characteristics (at $T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C = 100\mu\text{A}$, $I_E = 0$	40			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C = 10\text{mA}$, $I_B = 0$	30			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E = 100\mu\text{A}$, $I_C = 0$	6			V
Collector cut-off current	I_{CBO}	$V_{CB} = 40\text{V}$, $I_E = 0$			1	μA
Collector cut-off current	I_{CEO}	$V_{CE} = 30\text{V}$, $I_B = 0$			10	μA
Emitter cut-off current	I_{EBO}	$V_{EB} = 6\text{V}$, $I_C = 0$			1	μA
DC current gain	h_{FE}	$V_{CE} = 2\text{V}$, $I_C = 1\text{A}$	100		200	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = 2\text{A}$, $I_B = 0.2\text{A}$			0.5	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C = 2\text{A}$, $I_B = 0.2\text{A}$			1.5	V
Transition frequency	f_T	$V_{CE} = 5\text{V}$, $I_C = 0.1\text{A}$, $f = 10\text{MHz}$		90		MHz

RATING AND CHARACTERISTIC CURVES (D882M-G)

Fig.1 - Static Characteristic

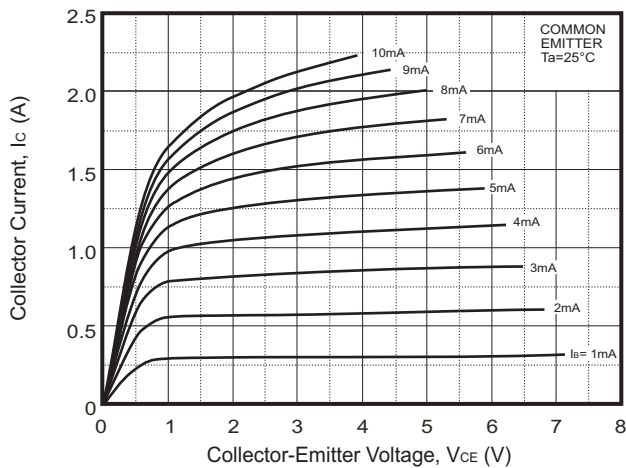


Fig.3 - $V_{CEsat} - I_c$

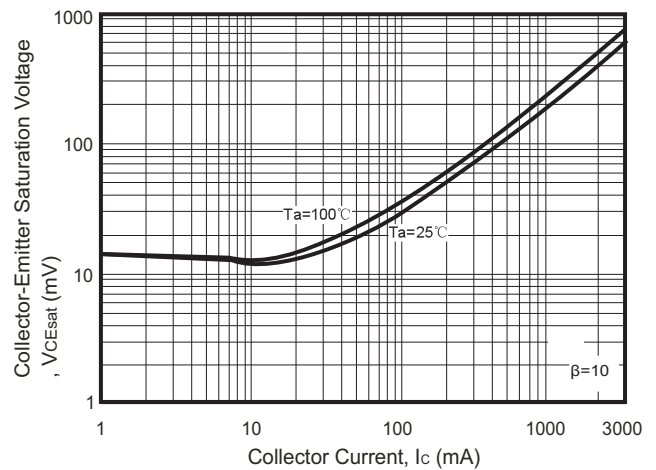


Fig.4 - $V_{BEsat} - I_c$

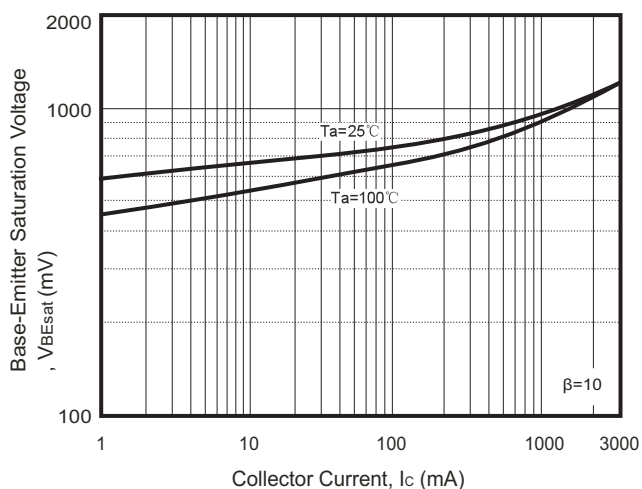


Fig.5 - $I_c - V_{BE}$

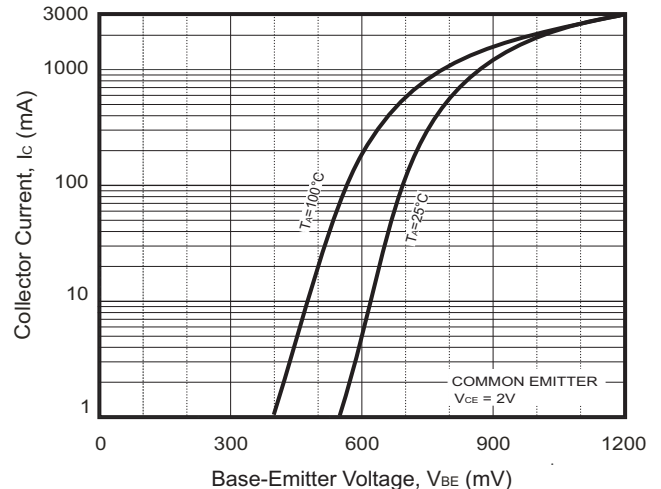


Fig.6 - $C_{ob} / C_{ib} - V_{CB} / V_{EB}$

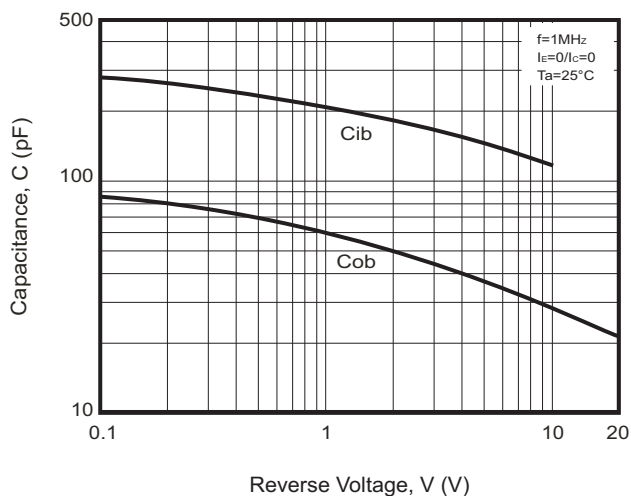
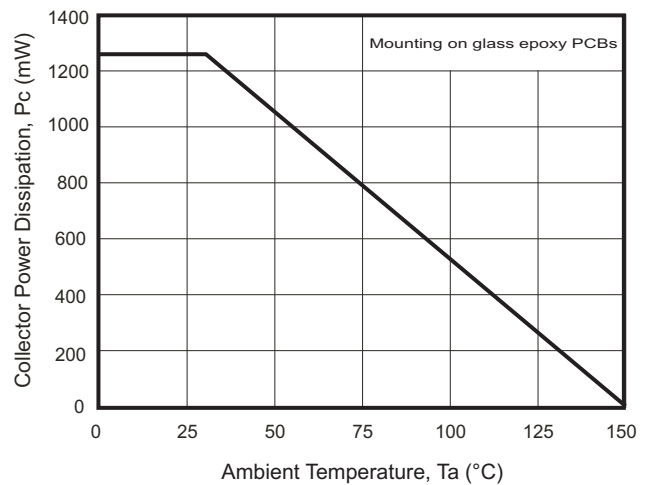
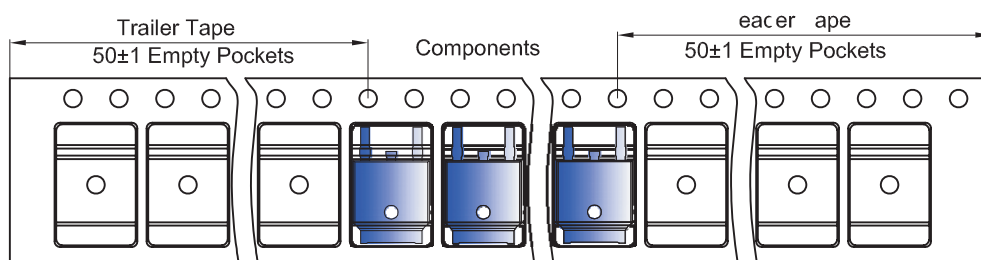
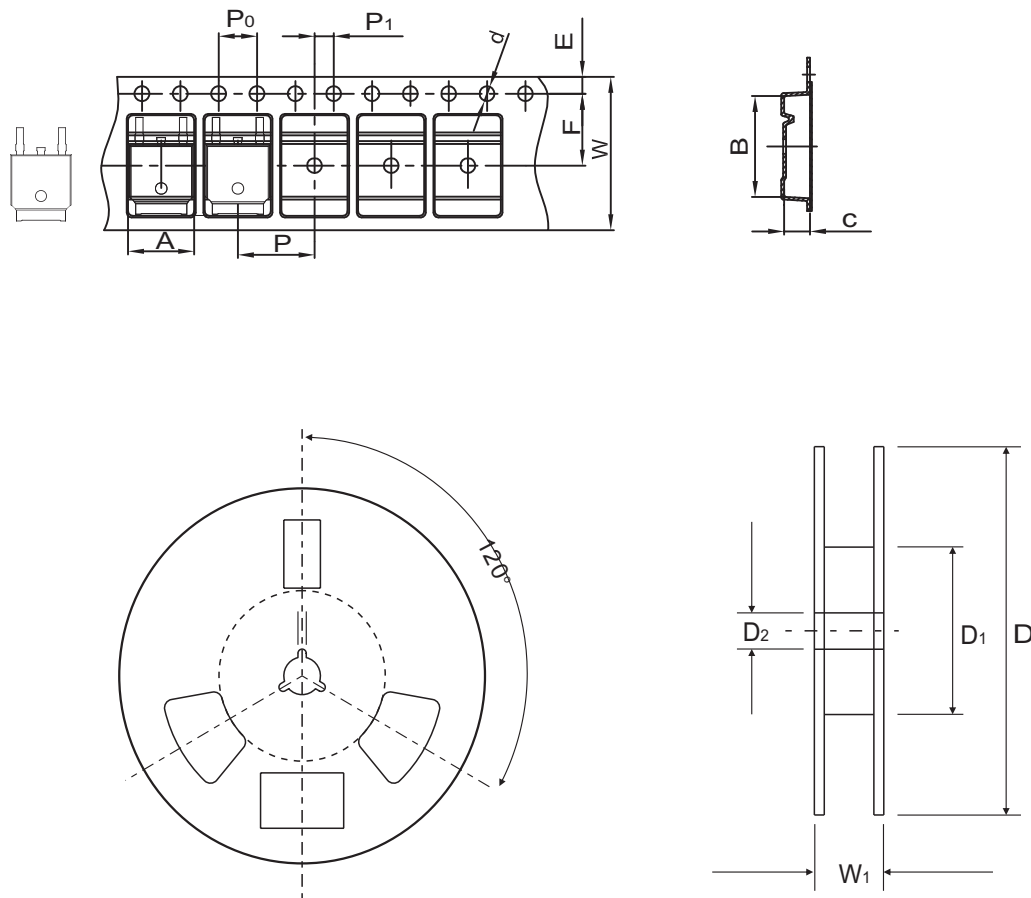


Fig.4 - Typical Power Derating Curve



Reel Taping Specification

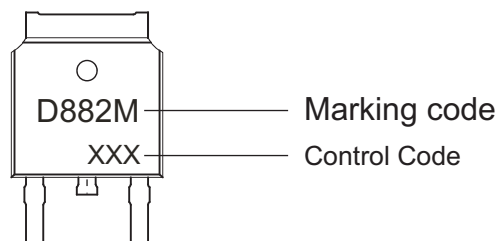


TO-252-2L	SYMBOL	A	B	C	d	D	D1	D2
	(mm)	6.90 ± 0.10	10.50 ± 0.10	2.70 ± 0.10	Φ1.55 ± 0.10	330.00 ± 2.00	100.00 ± 1.00	21.00 ± 1.00
	(inch)	0.272 ± 0.004	0.413 ± 0.004	0.106 ± 0.004	Φ0.061 ± 0.004	12.992 ± 0.079	3.937 ± 0.039	0.827 ± 0.039

TO-252-2L	SYMBOL	E	F	P	P0	P1	W	W1
	(mm)	1.75 ± 0.10	7.50 ± 0.10	8.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.10	16.00 + 0.30 / -0.10	13.00 ± 1.00
	(inch)	0.069 ± 0.004	0.295 ± 0.004	0.315 ± 0.004	0.157 ± 0.004	0.079 ± 0.004	0.630 + 0.012 / -0.004	0.512 ± 0.039

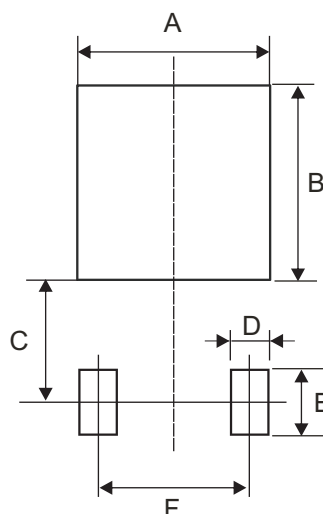
Marking Code

Part Number	Marking Code
D882M-G	D882M



Suggested PAD Layout

SIZE	TO-252-2L	
	(mm)	(inch)
A	5.80	0.228
B	5.85	0.230
C	3.70	0.146
D	1.20	0.047
E	2.00	0.079
F	4.57	0.180



Standard Packaging

Case Type	REEL PACK	
	REEL (pcs)	Reel Size (inch)
TO-252-2L	2,500	13