MSKSEMI















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Broduct data sheet







TO-252-2L

TRANSISTOR (NPN)

FEATURES

Power Dissipation

MAXIMUM RATINGS (Ta=25°C unless otherwise noted)

1. BASE

2. COLLECTOR

3 .EMITTER

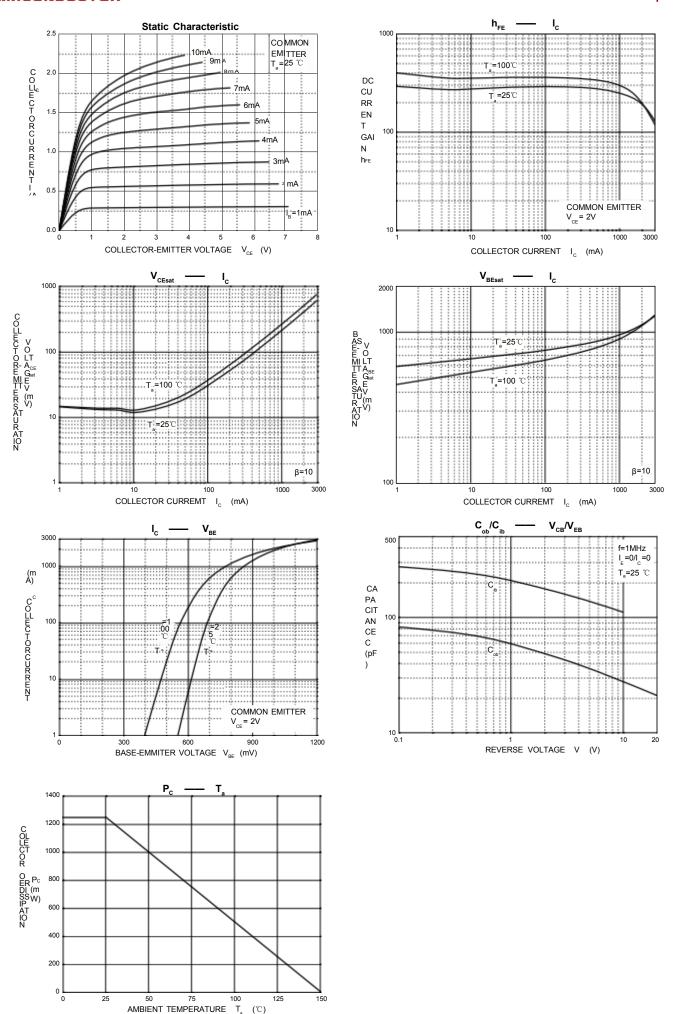
Symbol	Parameter	Value	Unit
Vcво	Collector-Base Voltage	40	V
VCEO	Collector-Emitter Voltage	30	V
V _{EBO}	Emitter-Base Voltage	6	V
Ic	Collector Current -Continuous	3	Α
Pc	Collector Power Dissipation	1.25	W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55-150 ℃	

ELECTRICAL CHARACTERISTICS ($T_a=25\,^{\circ}\mathrm{C}$ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V(BR) _{CBO}	Ic = 100μA, I _E =0	40			V
Collector-emitter breakdown voltage	V(BR) _{CEO}	I _C = 10mA, I _B =0	40			V
Emitter-base breakdown voltage	V(BR) _{EBO}	Iε= 100μA, Ic=0	6			V
Collector cut-off current	I _{CBO}	V _{CB} = 40 V, I _E =0			1	μA
Collector cut-off current	ICEO	V _{CE} = 30 V, I _B =0			10	μA
Emitter cut-off current	I _{EBO}	V _{EB} = 6 V, I _C =0			1	μA
DC current gain	hfE	V _{CE} = 2 V, I _C = 1A	60		400	
Collector-emitter saturation voltage	V _{CE} (sat)	Ic= 2A, I _B = 0.2 A			0.5	V
Base-emitter saturation voltage	V _{BE (sat)}	Ic= 2A, I _B = 0.2 A			1.5	V
Transition frequency	f⊤	V _{CE} = 5V, I _C =0.1A f =10MHz		90		MHz

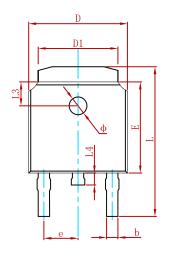


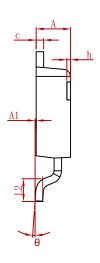


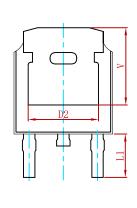




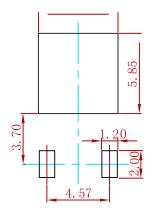
PACKAGE MECHANICAL DATA







Cumbal	Dimensions In Millimeters		Dimensions In Inches		
Symbol	Min.	Max.	Min.	Max.	
Α	2.200	2.400	0.087	0.094	
A1	0.000	0.127	0.000	0.005	
b	0.635	0.770	0.025	0.030	
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	4.830 REF.		0.190 REF.		
E	6.000	6.200	0.236	0.244	
е	2.186	2.386	0.086	0.094	
L	9.712	10.312	0.382	0.406	
L1	2.900 REF.		0.114 REF.		
L2	1.400	1.700	0.055	0.067	
L3	1.600 REF.		0.063	REF.	
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	5.250 REF.		0.207	REF.	



Note:

- 1.Controlling dimension:in millimeters.
- 2.General tolerance:± 0.05mm.
- 3. The pad layout is for reference purposes only.

REEL SPECIFICATION

P/N	PKG	QTY
2SD882	TO-252	2500



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