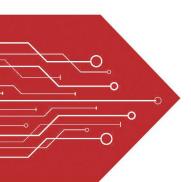
MSKSEMI















ESD

TVS

TSS

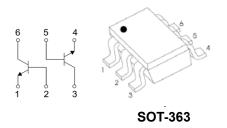
MOV

GDT

PLED

Broduct data sheet





DUAL TRANSISTOR (NPN+NPN)

FEATURES

- Two transistors in one package
- Reduces number of components and board space
- No mutual interference between the transistors

MARKING: 4Ft

MAXIMUM RATINGS(T_a=25℃ unless otherwise noted)

Symbol	Parameter	Value	Units	
V _{CBO}	Collector-Base Voltage	80	V	
V _{CEO}	Collector-Emitter Voltage	65	V	
V _{EBO}	Emitter-Base Voltage	6	V	
Ic	Collector Current –Continuous	0.1	Α	
Pc	Collector Dissipation	200	mW	
TJ	Junction Temperature	150	℃	
T _{stg}	Storage Temperature	-55-150	$^{\circ}$	

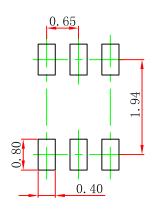
ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

Parameter Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =10μA,I _E =0	80			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =10mA,I _B =0	65			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =10μA,I _C =0	6			V
Collector cut-off current	I _{CBO}	V _{CB} =30V,I _E =0			15	nA
Emitter cut-off current	I _{EBO}	I _C =0, V _{EB} =5V			5	μΑ
DC current gain	h _{FE}	V _{CE} =5V,I _C =2mA	110		600	
Collector emitter acturation valtage	V _{CE(sat)(1)}	I _C =10mA,I _B =0.5mA			0.1	٧
Collector-emitter saturation voltage	V _{CE(sat)(2)}	I _C =100mA,I _B =5mA			0.3	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C =10mA,I _B =0.5mA		0.77		V
Transition frequency	f⊤	V _{CB} =5V,I _E =10mA,f=100MHz	100			MHz
Collector output capacitance	C _{ob}	V _{CB} =10V,I _E =0,f=1MHz			1.5	pF



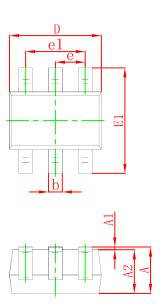


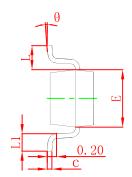
SOT-363



Note:

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





Symbol	Dimensions In Millimeters		Dimensions In Inches		
Symbol	Min	Max	Min	Max	
Α	0.900	1.100	0.035	0.043	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.000	0.035	0.039	
b	0.150	0.350	0.006	0.014	
С	0.100	0.150	0.004	0.006	
D	2.000	2.200	0.079	0.087	
E	1.150	1.350	0.045	0.053	
E1	2.150	2.400	0.085	0.094	
е	0.650) TYP	0.026	S TYP	
e1	1.200	1.400	0.047	0.055	
L	0.525 REF		0.021 REF		
L1	0.260	0.460	0.010	0.018	
θ	0°	8°	0°	8°	

REEL SPECIFICATION

P/N	PKG	QTY
BC846S	SOT-363	3000



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