

Features

- Two 2SC5585 Chips in a Package
- Mounting Cost and Area Can be Cut in Half
- Transistor Elements are Independent, Eliminating Interference
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

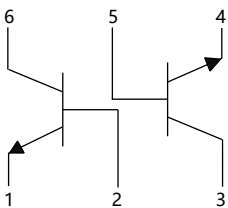
Maximum Ratings @ 25°C Unless Otherwise Specified

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 833°C/W Junction to Ambient

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V_{CBO}	15	V
Collector-Emitter Voltage	V_{CEO}	12	V
Emitter-Base Voltage	V_{EBO}	6	V
Continuous Collector Current	I_C	150	mA
Power Dissipation	P_D	150	mW

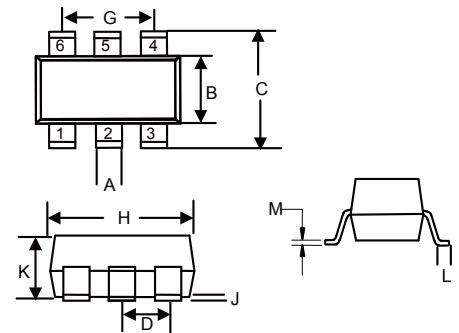
Marking: X18

Internal Structure



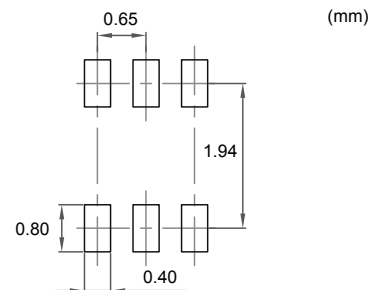
Dual NPN Transistors

SOT-363



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	0.006	0.014	0.15	0.35	
B	0.045	0.053	1.15	1.35	
C	0.079	0.096	2.00	2.45	
D		0.026		0.65	TYP.
G	0.047	0.055	1.20	1.40	
H	0.071	0.087	1.80	2.20	
J	----	0.004	----	0.10	
K	0.031	0.043	0.80	1.10	
L	0.010	0.018	0.26	0.46	
M	0.003	0.006	0.08	0.15	

Suggested Solder Pad Layout



Electrical Characteristics @ T_A=25°C Unless Otherwise Specified

Parameter	Symbol	Min	Typ	Max	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	15			V	I _C =10μA, I _E =0
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	12			V	I _C =1mA, I _B =0
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	6			V	I _E =10μA, I _C =0
Collector Cutoff Current	I _{CBO}			0.1	μA	V _{CB} =15V, I _E =0
Emitter Cutoff Current	I _{EBO}			0.1	μA	V _{EB} =6V, I _C =0
DC Current Gain	h _{FE}	270		680		V _{CE} =2V, I _C =10mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}			0.25	V	I _C =200mA, I _B =10mA
Transition Frequency	f _T		320		MHz	V _{CE} =2V, I _C =-10mA, f=100MHz
Output Capacitance	C _{ob}		7.5		pF	V _{CB} =10V, I _E =0, f=1MHz

Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

Note : Adding "-HF" Suffix for Halogen Free, eg. Part Number-TP-HF

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