

PRIMARY CHARACTERISTICS

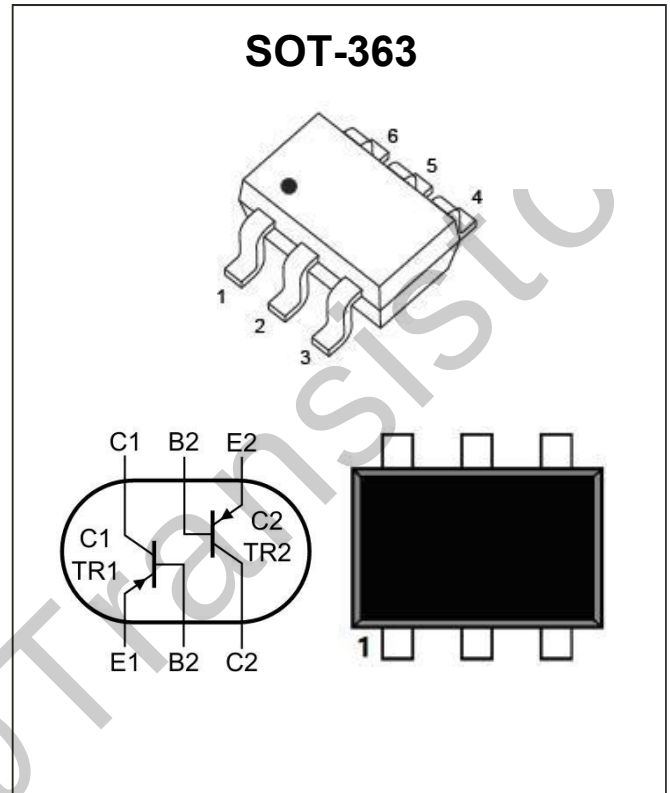
VCEO	IC	VCE(sat)	fT	Tjmax
-65V	-100mA	-0.30V	100MHz	150°C

Features

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

Mechanical Data

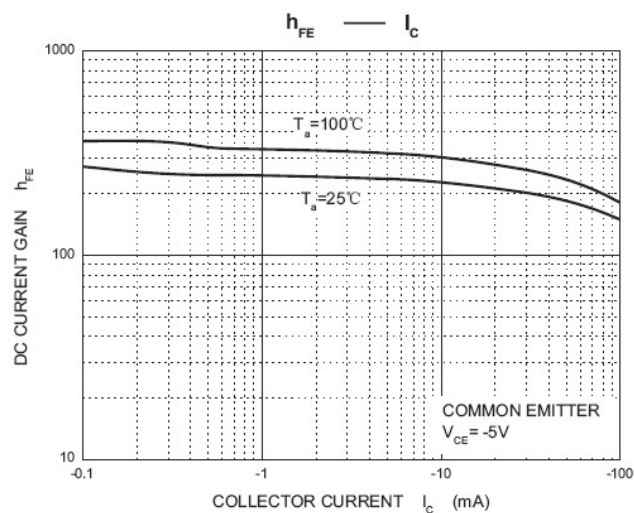
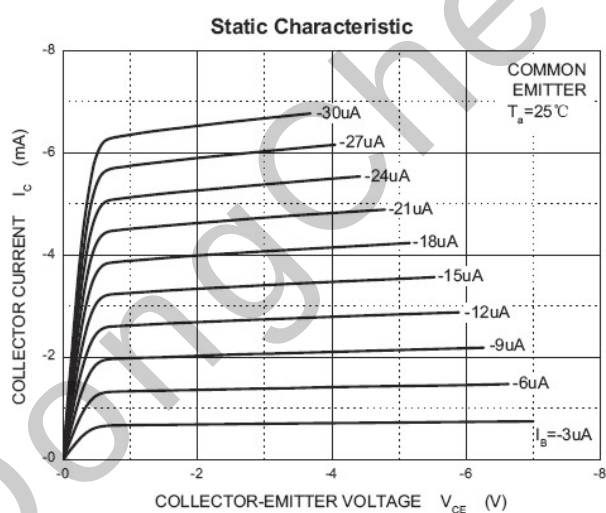
- SOT-363 Small Outline Plastic Package
- Epoxy UL: 94V-0
- Mounting Position: Any

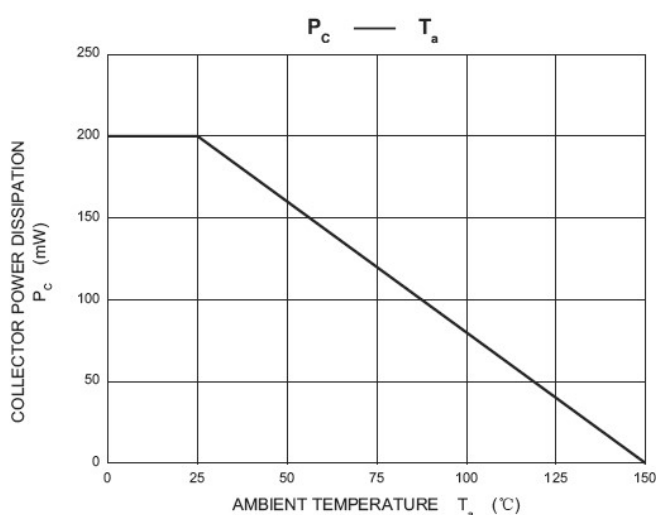
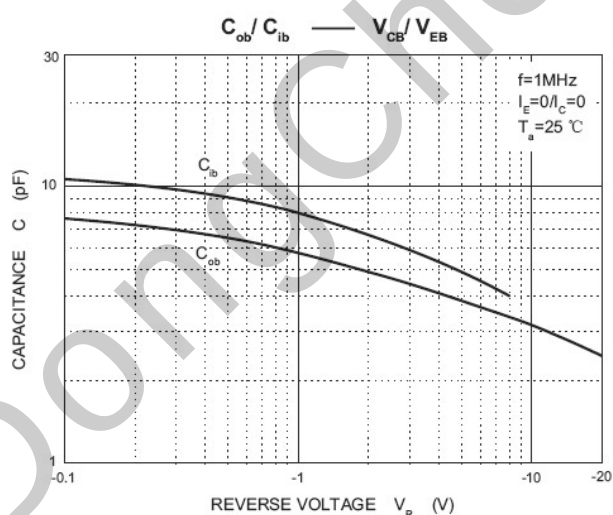
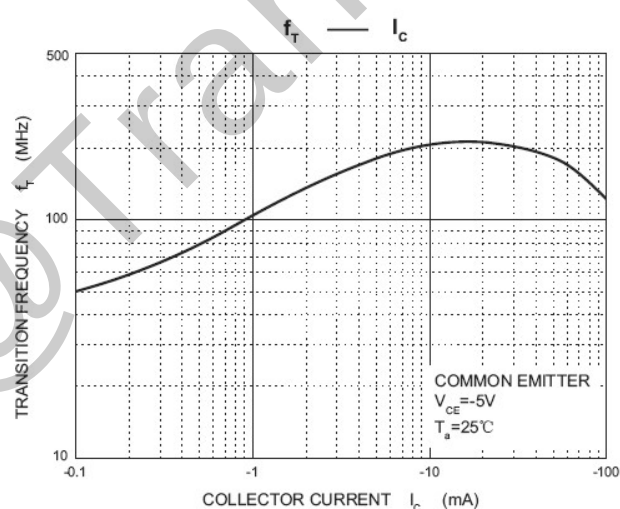
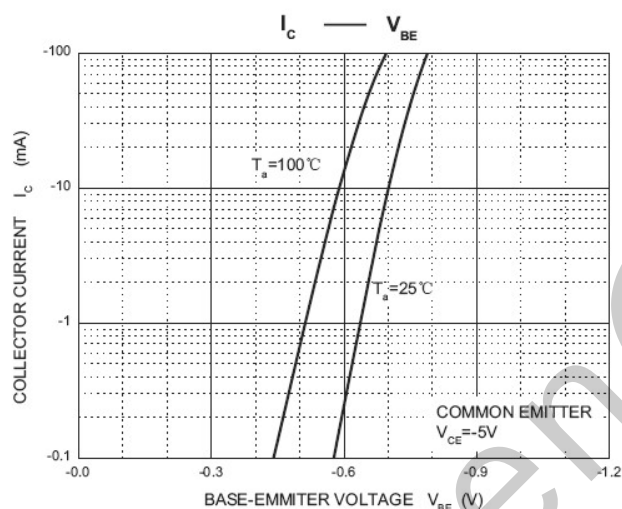
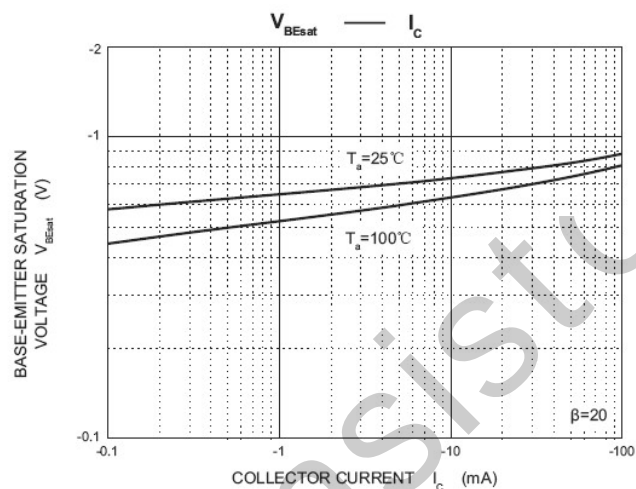
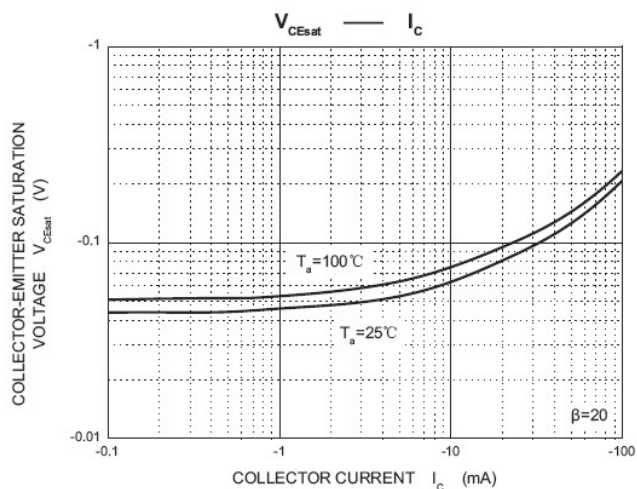
SOT-363

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

Parameters	Symbols	Limits	Units
Collector-Base Voltage	VCBO	-80	V
Collector-Emitter Voltage	VCEO	-65	V
Emitter -Base Voltage	VEBO	-5	V
Collector Current-Continuous	IC	-100	mA
Collector Power Dissipation	PC	200	mW
Junction Temperature	Tj	150	°C
Storage Temperature	Tstg	-55~+150	°C
Thermal resistance From junction to ambient	RθJA	625	°C/W

Electrical Characteristics(Ta=25°C unless otherwise noted)

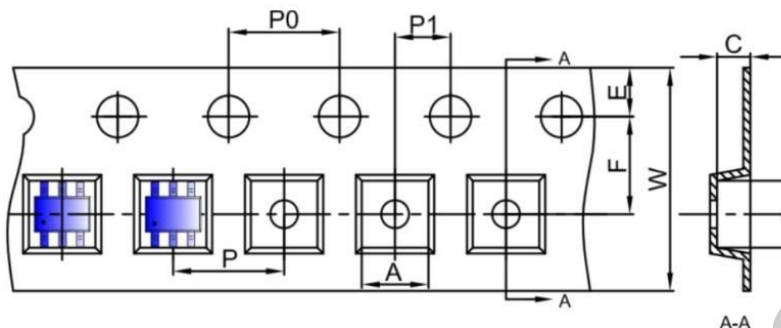
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V(BR)CBO	IC=-10μA, IE=0	-80	-	-	V
Collector-emitter breakdown voltage	V(BR)CEO	IC=-10mA, IB=0	-65	-	-	V
Emitter-base breakdown voltage	V(BR)EBO	IE=-10μA, IC=0	-5	-	-	V
Collector cut-off current	ICBO	VCB=-30V, IE=0	-	-	-15	nA
Emitter cut-off current	IEBO	VEB=-5V, IC=0	-	-	-100	nA
DC current gain	hFE(1)	VCE=-5V, IC=-2mA	110	-	-	
Collector-emitter saturation voltage	VCE(sat)	IC=-10mA, IB=-0.5mA	-	-	-0.1	V
		IC=-100mA, IB=-5mA	-	-	-0.3	V
Base-emitter saturation voltage	VBE(sat)	IC=-10mA, IB=-0.5mA	-	-	0.7	V
Transition frequency	fT	VCE=-5V, IC=-10mA, f=100MHz	100	-	-	MHz
Collector output capacitance	Cob	VCB=-10V, IE=0, f=1MHz	-	-	2.5	pF

Typical characteristics


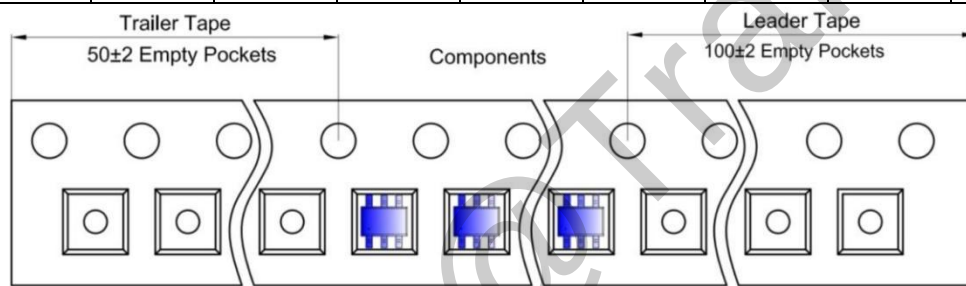


Package Information

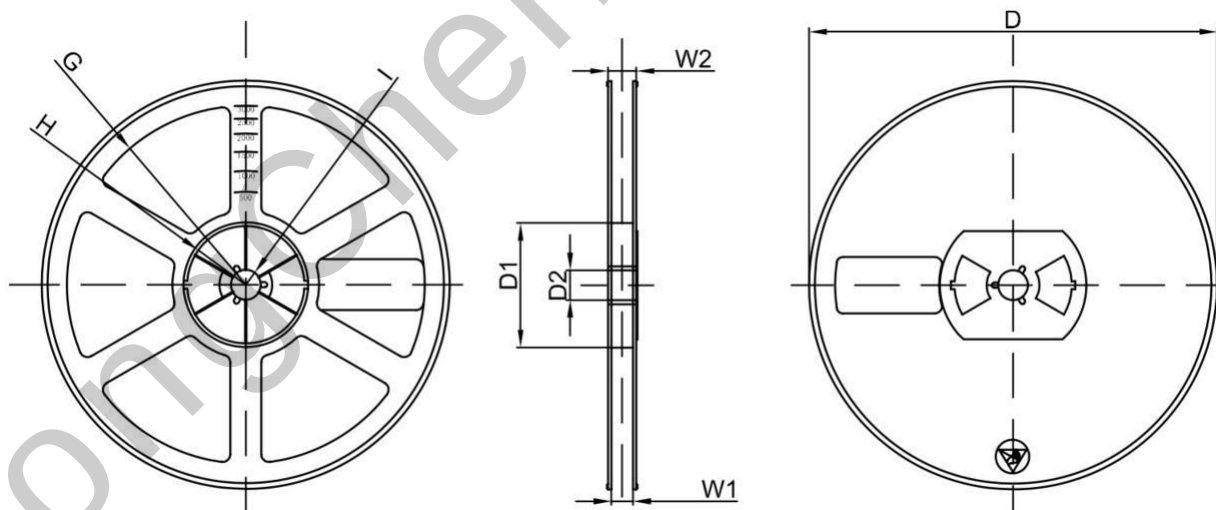
Carrier Dimension(mm)



Dimensions are in millimeter										
Pkg Type	A	B	C	d	E	F	P0	P	P1	W
SOT-363	2.25	2.55	1.20	Ø1.50	1.75	3.50	4.00	4.00	2.00	8.00



Reel Dimension(mm)



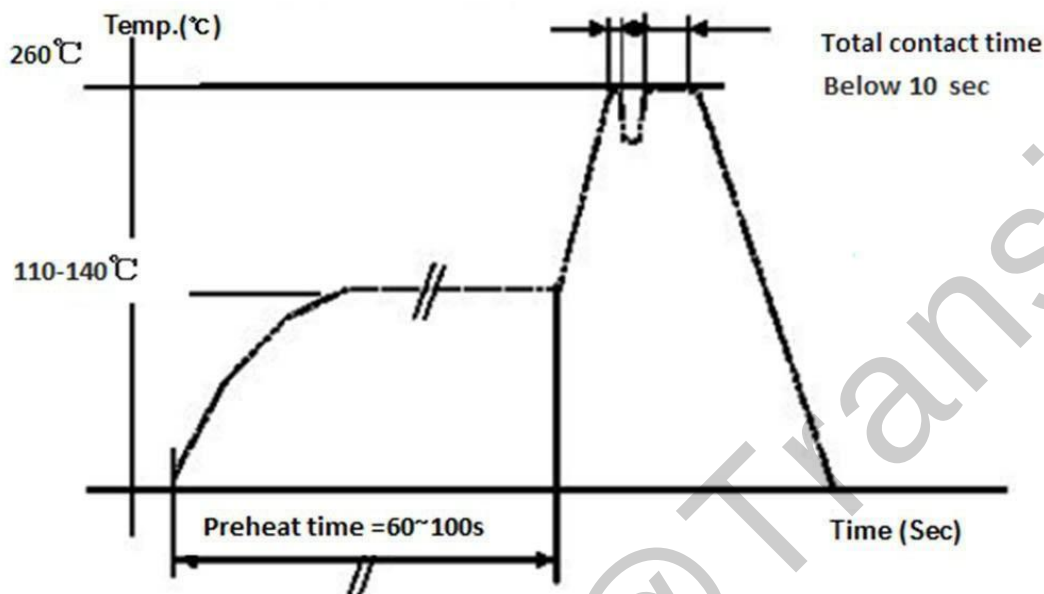
Reel Option	D	D1	D2	G	H	I	W1	W2
7"Dia	Φ178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30
Tolerance	±2	±1	±1	±1	±1	±1	±1	±1

Package Specifications

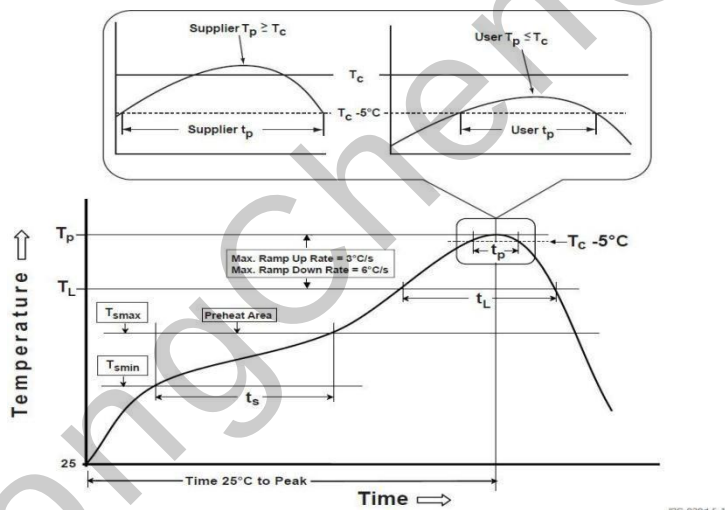
Package	Reel Size	Reel DIA. (mm)	Q'TY/Reel (Kpcs)	Box Size (mm)	QTY/Box (Kpcs)	Carton Size (mm)	Q'TY/Carton (Kpcs)
SOT363	7'	178	3	210*208*203	45	440*400*230	180

Recommended Soldering Profile for Rectifier Diodes (Pb Free)

a) Wave Soldering Profile



b) Reflow Soldering Profile (Pb Free Application), refer to IPC/JEDEC J-STD-020

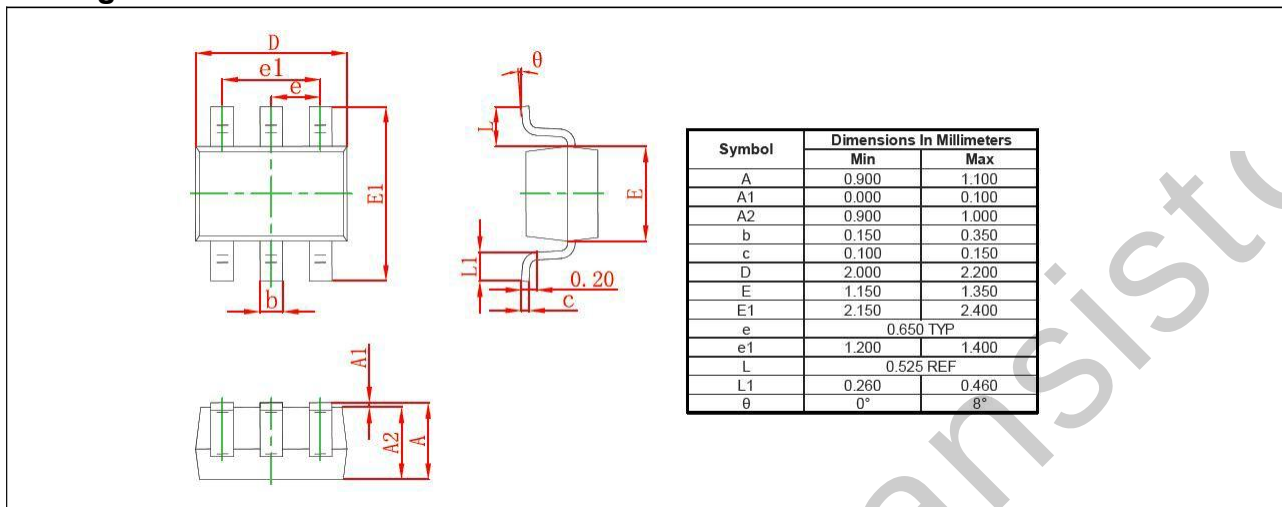


Preheat/Soak Temperature Min (T _{smin}) Temperature Max (T _{smax}) Time (ts) from (T _{smin} to T _{smax})	50 °C 200 °C 60-120 seconds
Melting Point of Solder (Sn Ag Cu)	217°C
Ramp-up Rate to 217°C (Melting Point of Solder)	3°C/sec
Time at Temp. > 217°C (Melting Point of Solder)	60~150 Sec
Peak Temperature	255±5°C
Time within 5°C below Peak Temp.	20~40 Sec
Cooling Rate	6°C/sec (max)
Time from 25°C to Peak Temp.	8min (max)

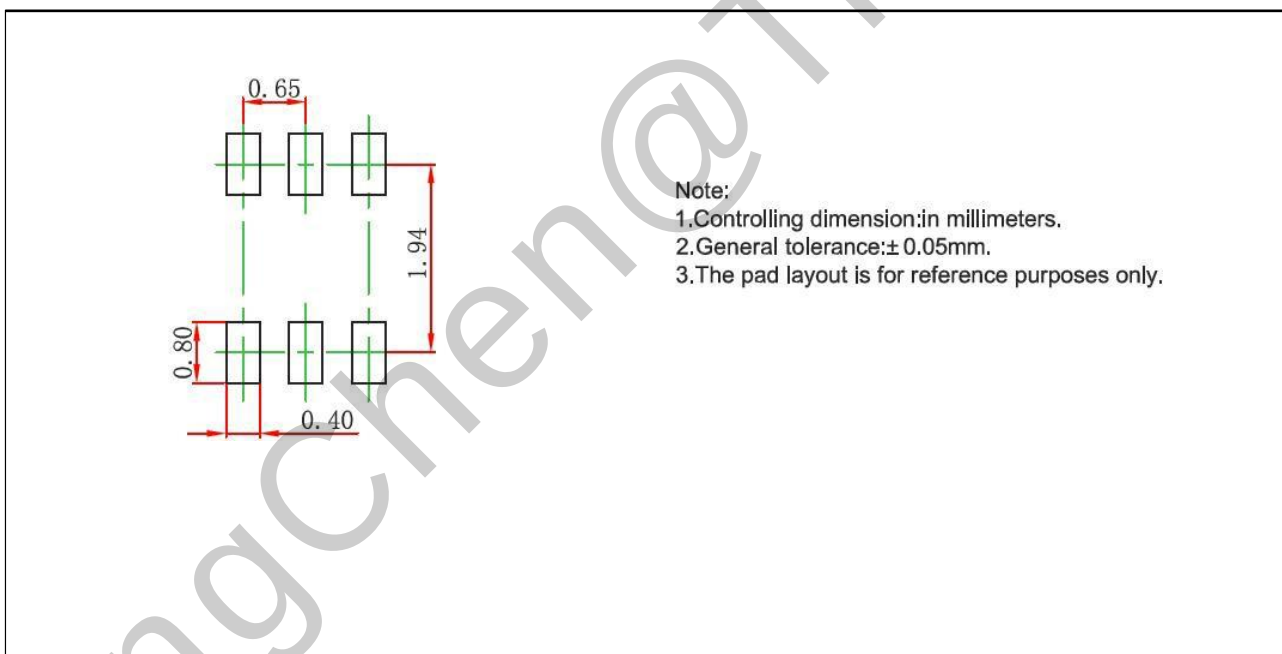
c) Manual Soldering

When using an electric soldering iron for manual soldering, it is recommended that the temperature does not exceed 300°C and the soldering time is less than 10 seconds.

Package Dimensions



Pad dimensions



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