

SCT1256 Series Specification

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1. Part name & part number

Part name	Part number
Housing	SCT1256H-xxB0BK164
Terminal	SCT1256TPS164
Straight Angle Dip Wafer	SCT1256WVS-xxF1BK164
Right Angle Dip Wafer	SCT1256WRS-xxF1BK164

2. Construction, dimensions, material & surface finish: Construction and dimensions shall be in accordance with the referenced drawings. Material and surface finish shall be as specified below.

Part name	Material	Surface finish
Housing	Nylon66	UL 94V-0
Terminal	Phosphor Bronze	Tin-plated
Wafer	Body	LCP
	Post	Phosphor Bronze
		UL 94V-0
		Tin-plated

(Please Refer to the Project drawing for the above Specification)

3. Ratings and applicable wires

Item	Standard
Rated Voltage (Max.)	50V
Rated Current (Max.)	1.5A AC/ DC
Environmental temperature Range	-25°C~+105°C
Applicable wire insulation O.D	AWG26-30# Insulation O.D. 0.5-1.0mm

4. Performance

4.1 Mechanical Performance

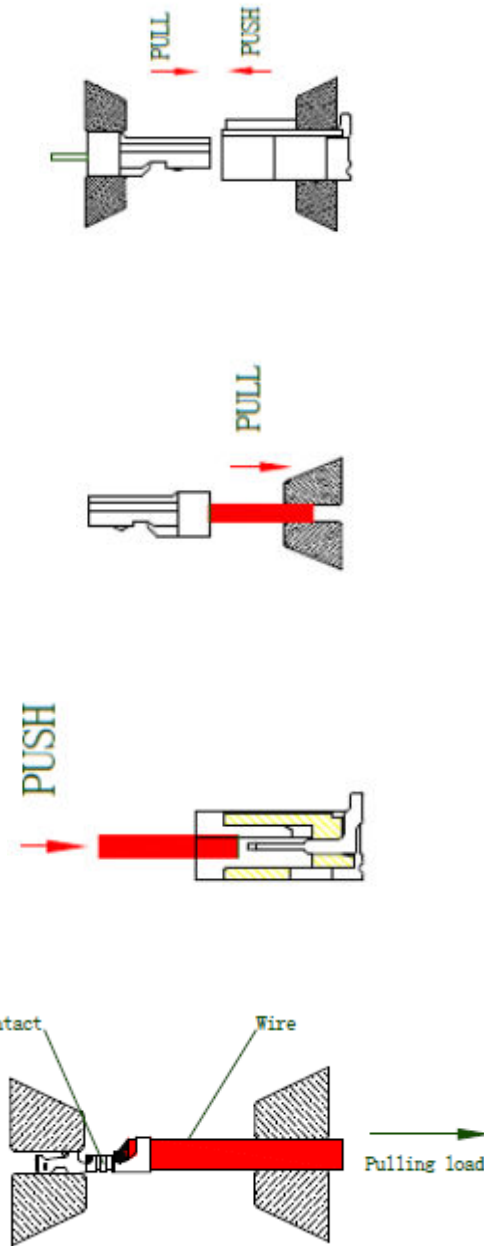
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Performance test

Item	Test Condition	Requirement
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Housing with crimped terminal and wafer shall be

Insertion
&
4.1-1 Withdrawal
Force



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4.2 Electrical Performance.

Performance test			
	Item	Test Condition	Requirement
4.2-1	Contact Resistance	Initial: 10 mΩ (max) After environmental test: 20 mΩ (max)	Test current:10 mA (DC) Open voltage :20 mV (DC)
4.2-2	Insulation Resistance	DC 500V shall be applied between outer surface of housing and terminal and between adjacent terminals to measure insulation resistance.	Initial: 100 MΩ (Max)
4.2-3	Dielectric withstanding voltage	Initially AC500V(rms) and after humidity and thermal shock tests AC 250V(rms) shall be applied between outer surface of housing and terminal and between adjacent terminals for one minutes. Test current : 1mA	There shall be no breakdown nor flashover.

4.3 Environmental Performance and Others.

Performance test				
	Item	Test Condition	Requirement	
4.3-1	Repeated Insertion Withdrawal	When mated up to 50 cycles repeatedly by the rate of 10 cycles per minute.	Contact Resistance	20 mΩ Max.
4.3-2	Temperature Rise	Carrying rated current load.	Temperature rise	30°C Max.
4.3-3	Vibration	Amplitude: 1.5mm P-P Sweep time: 10~55~10 HZ in 1 minute Duration: 2 hours in each X.Y.Z axials.	Appearance	No Damage
			Contact Resistance	20 mΩ Max.
			Discontinuity	1 micro-second Max.
4.3-4	Shock	490m/s ² {50G}, 3 strokes in each X.Y.Z. axes.	Appearance	No Damage
			Contact Resistance	20 mΩ Max.
			Discontinuity	1micro-second Max.

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4.3-5	Heat Resistance	85±2°C, 96 hours.	Appearance	No Damage
			Contact Resistance	20 mΩ Max.
4.3-6	Cold Resistance	-25±5°C, 96 hours.	Appearance	No Damage
			Contact Resistance	20 mΩ Max.
4.3-7	Humidity	Temperature: 40±2°C Relative Humidity: 60~65% Duration: 96 hours	Appearance	No Damage
			Contact Resistance	20 mΩ Max.
4.3-8	Temperature Cycling	5 cycles of: a) -25°C 30 minutes. b) +105°C 30 minutes.	Appearance	No Damage
			Contact Resistance	20 mΩ Max.
4.3-9	Salt Spray	24±1 hours exposure to a salt spray from the 5±1% solution at 35±2°C.	Appearance	No Damage
			Contact Resistance	20 mΩ Max.
4.3-10	Solder-ability	Soldering Time: 2.5±0.5second. Solder Temperature: 245±5°C.	Solder Wetting	95%of immersed area must show no voids, pin holes.
4.3-11	Solder-Resistance	Soldering time:5±1sec solder. Temperature:260+5/-5°C.	Appearance	No Damage

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5. Insertion/Withdrawal Force

PIN NO.OF	First Insertion (kgf Max.)	30th Withdrawal (kgf Min.)	PIN NO.OF	First Insertion (kgf Max.)	30th Withdrawal (kgf Min.)
Single row Series					
02	8.0	2.0			
03	11	2.5			
04	14	3.0			
05	17	3.5			
06	20	4.0			
07	23	4.5			
08	26	5.0			
09	29	5.5			
10	32	6.0			
11	35	6.5			
12	38	7.0			
13	41	7.5			
14	44	8.0			
15	47	8.5			
16	50	9.0			
Double row Series					

Note: Insertion and Withdrawal for 30Cycles