

آموزشگاه مجازی تاسیسات و سیستم های تهویه مطبوع

تصاویری از علائم اختصاری قطعات الکترونیکی







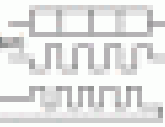


















































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AC current 	AC voltage 	ALU Amplifier (OP-AMP) A 100K (or 10-400K) Gain Max Terminal 	Antenna resistor
AND Gate 	AND Gate 	Antenna resistor 	Antenna resistor
Antenna coil, fixed 	Antenna coil, variable (see Resistor) 	Antenna resistor 	Antenna resistor
Attenuator, fixed (see Resistor) 	Attenuator, variable (see Resistor) 	Battery 	Battery
Bilateral Switch (SW) 	Bridge Rectifier (see Resistor) 	BUFER Amplifier-Gate 	BUFER Amplifier-Gate
BUFER Amplifier-Gate 	BUFER 	Capacitor fixed 	Capacitor fixed
Capacitor non-polarized 	Capacitor polarized (see Resistor) 	Capacitor variable 	Capacitor variable
Cavity Resonator 	Cell 	Circuit Breaker 	Circuit Breaker
Coaxial Cable 	CRD - Cathode Ray Oscilloscope 	Crystal Microphone Preamp 	Crystal Microphone Preamp
Connectors Plug (male) Jack (female) Socket Plug (male) Socket 	Crystal Microphone 	DC current 	DC current
Diode - diode 	Diode - Light Emitting (LED) 	Delay Line 	Delay Line
Diode - Photodiode 	Diode Bridge (see Resistor) 	Diode - Pin 	Diode - Pin
Diode - Varactor 	Diode - Zener 	Earth ground 	Earth ground
Diode - Zener 	Diode - Zener 	Electrical Microphone (condenser type) 	Electrical Microphone (condenser type)
Electric Pneumatic Controlled alternator system (see Resistor) 	Electroluminescence 	Exclusive-OR Gate (NOR Gate) 	Exclusive-OR Gate (NOR Gate)
Electric Pneumatic Controlled alternator system (see Resistor) 	Exotic/ASIC - Transistor (see Resistor) Gate Array or IC 	Exclusive-OR Gate NOR Gate 	Exclusive-OR Gate NOR Gate
Field Effect Transistor (FET) unipolar also J-FET (see Resistor) 	Field Effect Transistor (FET) unipolar also J-FET (see Resistor) 	Flashing LED Light Emitting Diode (see Resistor) 	Flashing LED Light Emitting Diode (see Resistor)

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Force Feed 	Fuse 	Galvanometer 
Glaze 	Ground Circuit 	Ground Earth 
Heater (resistance heater, radiator) 	IC Integrated Circuit  	Inductor Air Core 
Headphone 		Inductor Iron Core or Ferrite core 
Motor Tapped 	Motor Variable 	Integrated Circuit 
Inverter (not used) 	INVERTER (not used) 	
Jack Coupler 	Jack Phone (Phone Jack) 	Jack Phone Switched 
Jack Phone (1 connector) 	Key Telegraph (Motor Bell) 	Lamp Incandescent 
LAMP - neon 	LASER (gas-laser, HeNe, argon-ion, HeCd)	LDR (gas, Exposed Frames) 
LASER diode 	Light Emitting Diode (LED) 	Light Emitting Diode (LED) - surface mounted (on PCB) 
Mercury Switch 	Micro-amp meter (microammeter) 	Microphone (dynamic) 
Microphone (Crystal, piezoelectric) 	Milling meter (milliammeter) 	Motor 
NAND Gate 	NAND Gate 	Nitrol wire "Buss wire" 
Negative Voltage Connection 	NOR Gate 	NOR Gate 
NOT Gate Inverter 	NOT Gate Inverter 	Ohm reader 
Operational Amplifier (Op Amp) 	Opto-isolator (Photoelectric output) 	Opto Coupler PNP-BC107C 
Optocoupler (Darlington output) 	Opto Coupler (Photoelectric) 	OR-Gate 
OR-Gate 	Overload on CRO 	Output Power Output 
Photo Diaphragm 	Photo Cell (photo sensitive resistor) 	Photo Diode 
Photo-Coupled Transistor 	Photo FET (Photo Effect Transistor) 	Photo Transistor 

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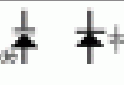




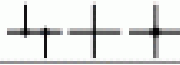




Photo-Voltaic Cell (Solar Cell)		Piezo Transducer (Piezo Speaker)		Positive Voltage Connection	
Photo-conductor (Variable Resistor)		Programmable Unidirectional Transistor (PUT)		Rectifier (Silicon Controlled Diode)	
Rectifier (Semiconductor)		Reed Switch		Relay - coil	
Relay - coil		Relay - contact		Relay - coil	
Resistor (Fixed)		Resistor (Non-inductive)		Resistor (variable)	
Resistor (variable)		Resonator (Cap)		RFC (Radio-frequency choke)	
Photo-voltaic (variable Resistor)		Saturable Reactor		Schmitt Trigger (Inverter-Gate)	
Schottky Diode (also called Low Forward Voltage Diode) also called Schottky Barrier Diode		Shielding		Stacking Diode (also called Schottky Barrier Diode) Retains full forward bias voltage.	
Silicon Controlled Switch (SICS)		Silicon Unilateral Switch (SUS)		Silicon Controlled Rectifier (SCR)	
Surface Mount:		Switch - open		Switch - normally closed	
		Switch - normally open		Switch - normally open	
		Switch - normally closed		Switch - normally closed	
		Switch - normally open		Switch - normally open	
		Switch - mercury switch		Switch - normally open	
		Spark Gap		Speaker	
Switch - push Pull-Button		Switch - push Pull-Button (SPST)		Switch - push Pull-Button	
Test Point		Thyristors (SCR, Triac)		Thermocouple	
Thermal Probe (RTD, thermistor, resistance thermistor)		Thyristors (SCR, Triac)		Tilt switch (mercury)	
Transformer (air core)		Transformer (iron-core)		Touch Sensor	
				Transformer (Potted Power supply)	

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Transistor Bipolar - NPN 	Transistor Bipolar - PNP 	Transistor n-channel Field Effect 
Transistor p-channel Field Effect 	Transistor Metal Oxide Single Gate 	Transistor Metal Oxide Dual Gate 
Transistor Photosensitive 	Transistor Schottky - NPN 	Transistor Unijunction - UJT Unijunction Transistor (UJT) N-type 
TRIAC 	Transistor Unijunction - UJT Unijunction Transistor (UJT) P-type 	Tunnel Diode 
Varactor varactor diode 	Voltage Regulator (7805 etc) 	Voltmeter 
Wattmeter 	Wires 	Wires Connected 
Wires Not Connected 	XOR Gate (exclusive OR) 	XOR Gate (exclusive OR) 
Zener Diode 	DEFROST.IR	

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آموزشگاه مجازی اشکان تهویه

دانلود جزوات

آبگرمکن دیواری

آبگرمکن برقی

آبگرمکن نفتی

پکیج شوفاژ دیواری

کولر گازی اسپلیت

یخچال و فریز

لوازم خانگی