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1 do you have a transistor that needs to be replaced figuring out what to look for in a replacement transistor can be difficult especially if you haven t been doing this for decades the following guidance may help you understand how to better find and select a modern equivalent transistor that will work well as a replacement transistor substitutes must match the specific pinout of the component they re replacing to ensure that the rest of the bom and the product s overall design will not be compromised or require major time intensive overhauls lead shape a small current between the emitter symbol e and the base controls a larger current between the emitter and the collector symbol c a substitute transistor must have the

same polarity npn or pnp as the original if it has the wrong polarity it won't work properly in its circuit how to choose a replacement for a bipolar transistor total 145304 transistors all transistors datasheet cross reference search transistor database single out the parameters most important to you and look up a suitable part using a manufacturer's selection guide for a transistor like the bc106 or 2n3634 this may be hfe h f e and or ic i c it may be easier to find a suitable replacement this way than by starting from minimum values this guide will help break down the steps we commonly take when looking for alternatives and which important parameters to use to help find the best options for a suitable replacement here are the general steps taken to help to determine potential alternatives identify transistor type based on markings sometimes you need to replace an old transistor with a modern equivalent let's figure out exactly what transistor we need for the clock circuit in the amstr one of the transistors that i need to replace is an old mj900 pnp power transistor with a newer close to

equivalent one since it s hard to find the originals and or expensive the power supply was made in the early 1970s what are some key concepts when choosing equivalent parts image credit technology student npn and pnp are the two standard types of transistors the letters refer to the order of semiconductor layers which make up the leads n type layers are composed of negative charge carriers and have excess electrons and p type layers are composed of positive charge carriers and have a lack of electrons english rca transistor replacement guide tables of transistors from different manufacturers and the equivalent rca transistor they can be replaced with addeddate 2021 05 16 20 36 52 identifier rcatransistor replacement guide identifier ark ark 13960 t89h6qc58 ocr tesseract 5 0 0 alpha 20201231 10 g1236 ocr detected lang en by mike thompson here you will find the complete guide on transistors from the basics of transistors the different types the most popular parts and how to use them in circuits i have you covered in this transistor guide this is part of our basics series

on diodes and transistors what is a transistor your only option is to find the transistor replacement or substitution you have to refer to a transistor cross reference book such as the famous philips ecg semiconductors master guide or any other information that you think can help you to find the near replacement the most popular transistor cross reference replacement guide is the philip ecg semiconductor master replacement guide in the content you can find out all sort of the components specification you can see the internal diagram of that particular components pin out voltage replacement block diagram and the component s layout 2017 12 21 amazingly the first operational transistor was declared 70 years ago on december 23 1947 1 the transistor is probably one of the most revolutionary components ever invented it led the way for the creation of integrated circuits microprocessors and computer memory in this article we ll discuss the following areas transistor replacement guide printed identification on part includes 536 printed identification on part includes 548 author pat bovenizer created date

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