

Threeneurons Kit Transistor Cross Reference

Part No.	Type	Absolute Maximum			hfe min	Acceptable Substitute
		V _{CEO}	I _C	P _D		
2N3904	NPN	40V	200mA	625mW	100	2N4401, MPSA05
2N3906	PNP	40V	200mA	625mW	100	2N4403, MPSA55
2N4401	NPN	40V	600mA	625mW	80	MPSA05
2N4403	PNP	40V	600mA	625mW	60	MPSA55
2N5401	PNP	150V	600mA	625mW	60	MPSA92, KSP92
2N6517	NPN	350V	500mA	625mW	30	MPSA42, KSP42
2N6520	PNP	350V	500mA	625mW	30	MPSA92, KSP92
MPSA05	NPN	60V	500mA	625mW	100	2N4401
MPSA55	PNP	60V	500mA	625mW	50	2N4403
MPSA65	PNP	80V	500mA	625mW	50	2N5401
MPSA42	NPN	300V	500mA	625mW	25	KSP42, PSA42, 2N6517
MPSA92	PNP	300V	500mA	625mW	25	KSP92, 2N6520
KSP42	NPN	300V	500mA	625mW	40	MPSA42, PSA42, 2N6517
PSA42	NPN	300V	500mA	625mW	25	MPSA42, KSP42, 2N6517
KSP92	PNP	300V	500mA	625mW	25	MPSA92, 2N6520

This is the acceptable substitute guide for TO-92 packaged transistors used in my kits. I design to the broadest of part variation, so the kit will still work, indifferent to the actual part parameters. I do not "TWEAK", or "batch" parts. I will not make a kit, that requires such tight specs ! Those are high performance instruments, not a hobbyist kit !



TO-92

Transistor Reference

Michael Rajnik



Transistor Reference:

The Transistor Bell Telephone Laboratories, inc,1951 Covers the same ground and supplements the talks given at a symposium on transistors which was held at the Bell Telephone Laboratories during the week beginning September 17 1951

The World Transistor Cross-reference Guide Wu hsien tien chi shu ch'u pan she,1976 *Transistor Reference Book* David G. Kilpatrick, William A. Dittrich,1964 *The World Transistor Cross-reference Guide* ,198? **Defensive System**

Trainer Specialist (AFSC 34152) Edward C. Pearson,1984 **Current Sources and Voltage References** Linden T. Harrison,2005-08-22 Current Sources and Voltage References provides fixed well regulated levels of current or voltage within a circuit These are two of the most important building blocks of analog circuits and are typically used in creating most analog IC designs Part 1 shows the reader how current sources are created how they can be optimized and how they can be utilized by the OEM circuit designer The book serves as a must have reference for the successful development of precision circuit applications It shows practical examples using either BJTs FETs precision op amps or even matched CMOS arrays being used to create highly accurate current source designs ranging from nanoAmps to Amps In each chapter the most important characteristics of the particular semiconductor type being studied are carefully reviewed This not only serves as a helpful refresher for experienced engineers but also as a good foundation for all EE student coursework and includes device models and relevant equations Part 2 focuses on semiconductor voltage references from their design to their various practical enhancements It ranges from the simple Zener diode to today s most advanced topologies including Analog Devices XFET and Intersil s FGATM invented while this book was being written Over 300 applications and circuit diagrams are shown throughout this easy to read practical reference book Discusses how to design low noise precision current sources using matched transistor pairs Explains the design of high power current sources with power MOSFETs Gives proven techniques to reduce drift and improve accuracy in voltage references **Official Gazette of the United States Patent and**

Trademark Office United States. Patent and Trademark Office,2002 **Bipolar Transistors for Use in Monolithic**

Bandgap References and Temperature Transducers Koert van der Lingen,1996 Zusammenfassung niederl ndisch

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Leonard M. Krugman,1958 **Transistor Circuit Handbook** Louis E. Garner,1956 Transistor Thyristor MOS FET [The](#)

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