

www.mbsm.pro , Porte-fusible à couteaux HPC ultra rapide

Category: Technologie

written by mahdi miled | 25 November 2017

Généralités

Généralités

Les cartouches-fusible HPC des classes de fonctionnement gG et gL protègent les appareils électriques des sur charges et des courts-circuits. Elles sont destinées

avant tout à la protection des circuits électriques basse

tension. Ces classes de fonctionnement gG et gL impliquent la coupure en toute sécurité de tout courant capable de faire fondre le fusible.

[mbsmdotpro- porte-fusible-couteaux-ultra-rapide.jpg \(83 KB\)](#)



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www.mbsm.pro , Practical Electronics for Inventors, Fourth Edition

Category: Technologie,Web

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Practical Electronics for Inventors, Fourth Edition

by: Paul Scherz, Dr. Simon Monk

Abstract: A fully updated, no-nonsense guide to electronics. Advance your electronics knowledge and gain the skills necessary to develop and construct your own functioning gadgets. Written by a pair of experienced engineers and dedicated hobbyists, Practical Electronics for Inventors, Fourth Edition, lays out the essentials and provides step-by-step instructions, schematics, and illustrations. Discover how to select the right components, design and build circuits, use microcontrollers and ICs, work with the latest software tools, and test and tweak your creations. This easy-to-follow book features new instruction on programmable logic, semiconductors, operational amplifiers, voltage regulators, power supplies, digital electronics, and more. Coverage includes:

- Resistors, capacitors, inductors, and transformers
- Diodes, transistors, and integrated circuits
- Optoelectronics, solar cells, and phototransistors
- Sensors, GPS modules, and touch screens
- Op amps, regulators, and power supplies
- Digital electronics, LCDs, and logic gates
- Microcontrollers and prototyping platforms
- Combinational and sequential programmable logic
- DC motors, RC servos, and stepper motors
- Microphones, audio amps, and speakers
- Modular electronics and prototypes

Book Details

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Dr. Simon Monk has a bachelor's degree in cybernetics and computer science and a Ph.D. in software engineering. He spent several years as an academic before he returned to industry, co-founding the mobile software company Momote Ltd. He has been an active electronics hobbyist since his early teens and is a full-time writer on hobby electronics and open-source hardware. Dr. Monk is author of numerous electronics books, including Programming Arduino, Hacking Electronics, and Programming the Raspberry Pi.

Description: A fully updated, no-nonsense guide to electronics. Advance your electronics knowledge and gain the skills necessary to develop and construct your own functioning gadgets. Written by a pair of experienced engineers and dedicated hobbyists, Practical Electronics for Inventors, Fourth Edition, lays out the essentials and provides step-by-step instructions, schematics, and illustrations. Discover how to select the right components, design and build circuits, use microcontrollers and ICs, work with the latest software tools, and test and tweak your creations. This easy-to-follow book features new instruction on programmable logic, semiconductors, operational amplifiers, voltage regulators, power supplies, digital electronics, and more. Coverage includes:

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www.mbsm.pro , Finition Electricité partie 1

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www.mbsm.pro , Finition Électricité partie 1


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

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
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www.mbsm.pro , branchement de detecteur de mouvement infrarouge exterieur

Category: Technologie

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Category: Technologie

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www.mbsm.pro , Contrôleur de température numérique / thermoélectrique / pour système frigorifique ou couveuse ,STC-200+ , STC-1000+

Category: Technologie

written by mahdi miled | 25 November 2017

Le contrôleur de température de STC-200+ est conçu avec l'arrangement séparé de menu d'utilisateur et de menu d'administrateur. Les options incluses dans cette unité sont alarmantes, chauffage, et modules de frigorification. Ce cooler de la température est applicable à tous les types d'entreposage au froid qui exige la température accrue. Il est également approprié au réfrigérateur de l'eau et à la machine de fruits de mer.

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www.mbsm.pro , S2000 Silicon NPN Transistor , Bipolar transistors data tables

Category: Non classé

written by Lilianne | 25 November 2017

the S2000 is a silicon NPN transistor, $U_{cb} = 1500V$, $I_c = 8A$, applications: TV horizontal deflection, color TV, switch mode power supply
Toshiba Tokyo Shibaura Electric Co. Ltd. Japan

Ucb: 1500V
Ic: 8A
 β (Ic/Ib): –
N: 125W
F: –
Tmax: –

Mbsm.pro , principe de fonctionnement d'un transistor

Category: Technologie

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Description du transistor

Le transistor est un composant d'où sortent 3 fils électriques. Ils sont dénommés B (base), C (collecteur), et E (émetteur).

Voici un dessin du transistor BC 547, agrandi quatre fois :



Un tel transistor coûte de l'ordre de 10 FB dans les magasins de composants électronique.

Voici la représentation classique du transistor dans les schémas électroniques :



Le principe de fonctionnement

- Si on branche une source de tension entre les bornes C et E, le transistor ne laisse pas passer de courant (fig. 1).
- Par contre, entre B et E il y a un court-circuit. Si on veut faire passer un courant précis entre B et E, il faut utiliser une source de tension et une résistance (fig. 2).
- **Si** on envoie un courant de I_b ampères entre B et E, **alors** le transistor acceptera de laisser passer un courant de $I_c = \beta \cdot I_b$ ampères entre C et E (fig. 3). Dans ce cas ci, β vaut de l'ordre de 100.



Les schémas électroniques correspondants aux dessins des figures 1, 2 et 3 sont représentés par les figures 4, 5 et 6 :



Note : Pour ceux qui voudraient essayer ces branchements : une seule pile de 9 Volts peut jouer le rôle des deux piles (fig. 7 et 8) :



Faites attention à la polarité : mettez bien le pôle positif et le pôle négatif de la pile au bon endroit. Le sens du courant est important pour un transistor. Le BC 547 est un transistor un peu faible pour allumer une lampe. Vous aurez peut-être intérêt à utiliser un transistor plus puissant, comme par exemple le BD 649. En voici un dessin, agrandi deux fois :



Au début, en faisant des erreurs de branchement ou en faisant dissiper une énergie trop importante au transistor, vous risquez fort d'en brûler quelques uns. C'est normal.

La raison pour laquelle on soustrait systématiquement 0,7 Volts de la tension U_{BE} est que les transistors bipolaires actuels contiennent une diode "parasite". La tension soustraite dépend du type de semiconducteur utilisé : 0,7 Volts pour le silicium, et 0,2 Volts pour le germanium.

