



**TO-18C Plastic-Encapsulate Transistors**

**HT13003** (AFQ) TRANSISTOR (NPN)

**FEATURES**

\* power switching applications

**MAXIMUM RATINGS (Ta=25°C unless otherwise noted)**

Symbol	Parameter	Value	Units
$V_{CEO}$	Collector-Base Voltage	700	V
$V_{CE0}$	Collector-Emitter Voltage	450	V
$V_{EB0}$	Emitter-Base Voltage	8	V
$I_C$	Collector Current (Continuous)	1.5	A
$P_C$	Collector Power Dissipation	1.5	W
$T_j$	Junction Temperature	150	°C
$T_{stg}$	Storage Temperature	-55-150	°C



**ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)**

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{CE0}$	$I_C=10mA, I_E=0$	700			V
Collector-emitter breakdown voltage	$V_{CE0}$	$I_C=10mA, I_E=0$	450			V
Emitter-base breakdown voltage	$V_{EB0}$	$I_C=0mA, I_E=0$	8			V
Collector cut-off current	$I_{C0}$	$V_{CE}=700V, I_E=0$			1	mA
Collector cut-off current	$I_{C0}$	$V_{CE}=450V, I_E=0$			0.5	mA
Emitter cut-off current	$I_{E0}$	$V_{EB}=8V, I_C=0$			1	mA
DC current gain	$\beta_{DC}$	$V_{CE}=5V, I_C=0.5A$	8		40	
	$\beta_{DC}$	$V_{CE}=5V, I_C=1.5A$	8			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=1A, I_E=0.2A$			1	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C=1A, I_E=0.2A$			1.2	V
Transition frequency	$f_T$	$V_{CE}=10V, I_C=100mA, f=1MHz$	8			MHz
Fall time	$t_f$	$I_C=1A, I_{em} = I_{C0} = 0.2A, V_{CE}=100V$			0.5	µs
Storage time	$t_s$	$I_C=200mA$	2		8	µs

**CLASSIFICATION OF  $\beta_{DC}$**

Range	10-15	15-20	20-25	25-30	30-35	35-40
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# All Transistors Datasheet Cross Reference Search

**M Walker**



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**Nuts & Volts** ,2005     *Sensor Networks* Andreas Ahrens,RangaRao Venkatesha Prasad,César Benavente-Peces,Nirwan Ansari,2022-09-26 This book constitutes selected and revised papers of the 9th International Conference SENSORNETS 2020 Valletta Malta held in February 2020 and the 10th International Conference SENSORNETS 2021 held virtually in February 2021 The 7 full papers presented were carefully reviewed and selected from 60 submissions They focus in all aspects of sensor networks including hardware of sensor networks wireless communication protocols sensor networks software hardware and architectures wireless information networks channel characterization data manipulation signal processing localization and object tracking through sensor networks modelling and simulation applications and uses     *Walford's Guide to Reference Material: Science and technology* Albert John Walford,Library Association,1999 A core resource for the identification and evaluation of reference materials cited in BCL3 and Sheehy While the majority of items are books periodical articles microforms and online and CD ROM sources are also represented This revised and updated volume includes many 1998 publications as possible together with some items published early in 1999 Some 700 items have been added bringing the total to 7 594 No schedule is given for publication of volumes 2 and 3 but presumably the complete project will follow three year cycle established with previous editions     **Electronics** ,1978     *Instruments & Control Systems* ,1964     73 Amateur Radio ,1986     *Electronics and Power* ,1968 IEE centenary issue 1871 1971 v 17 no 4 Apr May 1971     **Instruments** ,1964     **Microwave Journal** ,1977     **Information Display** ,1969     *EDN* ,1978     **Radio & TV News** ,1958 Some issues Aug 1948 1954 are called Radio electronic engineering edition and include a separately numbered and paged section Radio electronic engineering issued separately Aug 1954 May 1955     **Western Electronic News** ,1968     **Popular Electronics** ,1973     *Electronic Engineering* ,1975     **Electromechanical Design** ,1963     *Byte* ,1978     **R & D** ,1962     **Roster of Organizations in the Field of Automatic Computer Machinery** ,1963     *Kilobaud* ,1978

## **All Transistors Datasheet Cross Reference Search** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the ability of words has become more evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **All Transistors Datasheet Cross Reference Search**, a literary masterpiece that delves deep in to the significance of words and their affect our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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### **Table of Contents All Transistors Datasheet Cross Reference Search**

1. Understanding the eBook All Transistors Datasheet Cross Reference Search
  - The Rise of Digital Reading All Transistors Datasheet Cross Reference Search
  - Advantages of eBooks Over Traditional Books
2. Identifying All Transistors Datasheet Cross Reference Search
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an All Transistors Datasheet Cross Reference Search
  - User-Friendly Interface
4. Exploring eBook Recommendations from All Transistors Datasheet Cross Reference Search
  - Personalized Recommendations
  - All Transistors Datasheet Cross Reference Search User Reviews and Ratings

- All Transistors Datasheet Cross Reference Search and Bestseller Lists
- 5. Accessing All Transistors Datasheet Cross Reference Search Free and Paid eBooks
  - All Transistors Datasheet Cross Reference Search Public Domain eBooks
  - All Transistors Datasheet Cross Reference Search eBook Subscription Services
  - All Transistors Datasheet Cross Reference Search Budget-Friendly Options
- 6. Navigating All Transistors Datasheet Cross Reference Search eBook Formats
  - ePub, PDF, MOBI, and More
  - All Transistors Datasheet Cross Reference Search Compatibility with Devices
  - All Transistors Datasheet Cross Reference Search Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of All Transistors Datasheet Cross Reference Search
  - Highlighting and Note-Taking All Transistors Datasheet Cross Reference Search
  - Interactive Elements All Transistors Datasheet Cross Reference Search
- 8. Staying Engaged with All Transistors Datasheet Cross Reference Search
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers All Transistors Datasheet Cross Reference Search
- 9. Balancing eBooks and Physical Books All Transistors Datasheet Cross Reference Search
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection All Transistors Datasheet Cross Reference Search
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine All Transistors Datasheet Cross Reference Search
  - Setting Reading Goals All Transistors Datasheet Cross Reference Search
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of All Transistors Datasheet Cross Reference Search
  - Fact-Checking eBook Content of All Transistors Datasheet Cross Reference Search
  - Distinguishing Credible Sources

13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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