

# DISCRETE SEMICONDUCTOR

## Transistors

### •Bipolar Transistors

Part	Pin-to-Pin Compatibility	Polarity	P <sub>c</sub> max, W	V <sub>ce</sub> max, V	V <sub>ce</sub> max, V	V <sub>ce</sub> max, V	I <sub>c</sub> max, mA	P <sub>re</sub>	V <sub>ce</sub> sat, V	I <sub>ceoff</sub> , mA	F <sub>r</sub> , MHz	Nr. dB	Package (Pads)	
KT220A3	KSC1623	NPN	0.2	60	50	5	100	90...160 135...270 200...400 300...600	0.3	0.1	250		SOT-23	
KT220E9														
KT220B9														
KT220T9														
KT3102A4M	BC547A	NPN	0.25	50	50	5	200	100...250 200...500 200...500 400...800 200...500 400...1000 200...250 200...500 200...500	0.25	0.05 0.05 0.015 0.015 0.015 0.015 0.05 0.05 0.015	200 200 200 200 300 200 200 200 200	10 10 10 10 4 4	TO-92	
KT3102G4M	BC547B													
KT3102B4M	BC548B													
KT3102G4M	BC548C													
KT3102D4M	BC549B													
KT3102E4M	BC549B													
KT3102K4M	BC549C													
KT3102M4M	BC549C													
KT3107A														
KT3107G	BC307A													
KT3107B														
KT3107T	BC308A													
KT3107D	BC308B													
KT3107E														
KT3107K	BC309B													
KT3107M	BC307B													
KT3107N	BC308C													
KT3107U	BC309C													
KT3117A	2N2221	NPN	0.3	60	60	4	400	40...200 100...300 40...200	0.6	10	200		TO-18	
KT3117B	2N2222			0.3	75	75								TO-92
KT3117A1	PN2222		0.5	80	80									
KT3126A	BF506	PNP	0.15	30	30	3	30	25...100 50...180	1.2	0.5	500	5	TO-92	
KT3126B														
KT3127A	2N4441A	PNP	0.1	20	20	3	20	25...150		1.0	600	5	TO-92	
KT3126A1	BF372	PNP	0.3	40	35	4	30	25...150		0.1	600	5	TO-92	
KT3128A8														
KT3129B9	BC857A													
KT3129B9	BC858A													
KT3129F9	BC856B													
KT3129D9	BC857B													
KT3130A9	BCW71	NPN	0.1	50	40	5	100	100...250 200...500 200...500		0.1	150		SOT-23	
KT3130B9	BCW72			50	40									
KT3130B9	BCW32			50	20									
KT3130F9														
KT3130D9					20	15		400...1000		200		10		
KT3130D9					30	20		200...500		150		4		
KT3130E9					20	15		400...1000		300		4		
KT3130E9					20	25		100...500		150				
KT3140A	AN9289	NPN	0.35	40	40	4.5	200	50...120 100...300	0.25	0.4	200		TO-18	
KT3153A9	BCW00,70,700	NPN	0.3	60	60	5	400	100...300	0.35	0.05	200		SOT-23	
KT3157A	BF433	PNP	0.3	250	250	5	30	>50	1.0	0.1	50		TO-92	
KT3188A9	BC847A	NPN	0.225	50	45	6	100	110...220 200...450 430...800	0.6	0.015	300	10	SOT-23	
KT3189B9	BC847B													
KT3189B9	BC847C													
KT3684A9	BF660	NPN	0.1	15	15	4	30	50...200		0.5	900	3.3	SOT-23	
KT3685B9	KSC2757													
KT502A	KSA539	PNP	0.35	40	25	5	150	40...120 50...240 40...120	0.6	1	5		TO-92	
KT502B	BC312			40	25									
KT502B				50	40									
KT502T				50	40									
KT502Q				50	50									
KT502E				50	50									



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**Howard W. Sams & Co**

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Products Inc,1971      Semiconductor Cross Reference Data Book Howard W. Sams & Co. Engineering Staff,1991

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Receiver : Semiconductor Cross-reference Short Form Catalog and Selector Guide Motorola Semiconductor Products  
Inc,1976      Semiconductor Pocket Guide James P. Wallace,1999-07-01      **Semiconductors** NTE (Firma),1998

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Product Literature Motorola Semiconductor Products Inc,1992      *The Master Semiconductor Replacement Handbook--listed*  
*by Industry Standard Number ,1982*      Comprehensive Semiconductor Science and Technology ,2024-11-28

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drastically when systems vary from bulk to a low dimensional structure and further to a nanometer size Throughout this  
section there is an emphasis on the full understanding of the underlying physics especially quantum phenomena The second  
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electrical and optical properties The third section is devoted to design fabrication and assessment of discrete and integrated  
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automation displays illumination and consumer electronics Provides a comprehensive global picture of the semiconductor

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### **Table of Contents Semiconductor Cross Reference**

1. Understanding the eBook Semiconductor Cross Reference
  - The Rise of Digital Reading Semiconductor Cross Reference
  - Advantages of eBooks Over Traditional Books
2. Identifying Semiconductor Cross Reference
  - 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 Semiconductor Cross Reference
  - User-Friendly Interface
4. Exploring eBook Recommendations from Semiconductor Cross Reference
  - Personalized Recommendations

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

- 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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reichlich eiweiß mineral und ballaststoffe die verdauung wird hierdurch bereits am morgen ordentlich angekurbelt zusätzlich sorgt der haferbrei für einen gleichbleibenden blutzuckerspiegel sodass du lange satt und

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vorzubereiten

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web starten sie mit einem gesunden power frühstück in den tag der haferbrei porridge kommt aus schottland und wird traditionell mit haferflocken und wasser zubereitet es gibt aber zahlreiche abwandlungen etwa mit milch mandelmilch hafermilch co sowie mit anderen getreidesorten wie dinkel hirse oder amaranth