

Products

Transistors

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Bipolar Transistors in the TO-220SIS Package

We have developed a lineup of six bipolar transistors in the TO-220SIS package.

Part number	Absolute maximum rating		Package	Polarity	Features
	V _{CEO} (V)	I _C (A)			
TTA1452B	-80	-12	TO-220SIS	PNP	
TTB1020B	-100	-7	TO-220SIS	PNP	Darlington
TTC3710B	80	12	TO-220SIS	NPN	
TTD1409B	400	6	TO-220SIS	NPN	Darlington
TTD1410B	250	6	TO-220SIS	NPN	Darlington
TTD1415B	100	7	TO-220SIS	NPN	Darlington



Features

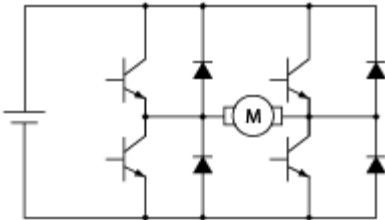
- High voltage: V_{CEO}=80 to 400V
- High-current specification: I_C=6 to 12A

Uses

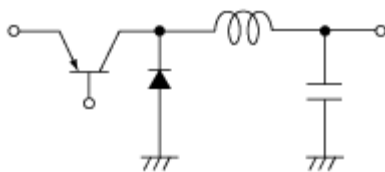
- For high-voltage and high-power switching

Circuit Example

Motor drive circuit



Voltage step-down circuit



Outline Drawing



Other Topics

- http://www.semicon.toshiba.co.jp/eng/product/transistor/selection/topics/1265401_2470.html[12/2/2012 10:41:34 AM]

- [Low RDS\(ON\) P-ch MOSFET for Smartphones: SSM6J505NU, SSM6J501NU, SSM6J503NU](#)(26 Jun, 2012)
- [PNP Bipolar Transistor for Automotive Applications: TTA005](#)(20 Jun, 2012)
- [General and Industrial Purpose 6th-generation D-IGBT: GT15J341, GT20J341](#)(25 May, 2012)
- [General and Industrial Purpose 6th-generation D-IGBT: GT30J341](#)(27 Apr, 2012)
- [6.5 Generation RC-IGBT Series: GT50MR21, GT50NR21, GT40QR21, GT40WR21](#)(19 Apr, 2012)
- [On-vehicle PS-8 Package Nch Power MOSFETs: TPCP8009, TPCP8010, TPCP8011, TPCP8207](#)(19 Apr, 2012)
- [P-ch Semi-Power MOSFET for Mobile Phones: SSM6J212/213/215FE](#)(29 Mar, 2012)
- [N-ch Semi-Power MOSFET: SSM3K335R](#)(29 Mar, 2012)
- [P-ch Semi-Power MOSFET for small mobile devices: SSM3J331R](#)(29 Mar, 2012)
- [P-ch Semi-power MOSFETs for Mobile Devices: SSM3J133TU, SSM3J134TU, SSM3J135TU](#)(28 Mar, 2012)
- [P-ch Semi-Power MOSFET: SSM3J334R](#)(28 Mar, 2012)
- [N-ch Semi-Power MOSFET: SSM3K333R](#)(28 Mar, 2012)
- [New Lineup of 600V System n-MOS VII DPAK/New PW-Mold2 Package Products: TK4P60D, TK4Q60DA](#)(16 Mar, 2012)
- [On-vehicle DPAK+ Package and Nch Power MOSFET: TK50S04K3L, TK45S06K3L](#)(14 Mar, 2012)
- [8th Generation Trench MOSFET Series: TK22E10N1, TK22A10N1, TK34E10N1, TK34A10N1, TK100E10N1, TK100A10N1](#)(23 Feb, 2012)

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