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| **L7805C** | **L7806C** | **L7808C** | **L7809C** |
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| **Positive Voltage Regulator** | **Positive Voltage Regulator** | **Positive Voltage Regulator** | **Positive Voltage Regulator** |
| VO (TJ = 25° C) = **5 V**  IO  = **1.2 A**  VI (DC Input Voltage) = **35 V**  Vd (IO  = 1A, TJ = 25° C) = **2 Typ.**  Id (TJ = 25° C) = **8 mA** RO (f = 1KHz) = **17 mΩ**  TOP = for L7800C = **0 to 150° C**  RthJA = **50° C/W** | VO (TJ = 25° C) = **6 V**  IO  = **1.2 A**  VI (DC Input Voltage) = **35 V**  Vd (IO  = 1A, TJ = 25° C) = **2 Typ.**  Id (TJ = 25° C) = **8 mA** RO (f = 1KHz) = **19 mΩ**  TOP = for L7800C = **0 to 150° C**  RthJA = **50° C/W** | VO (TJ = 25° C) = **8 V**  IO  = **1.2 A**  VI (DC Input Voltage) = **35 V**  Vd (IO  = 1A, TJ = 25° C) = **2 V Typ.**  Id (TJ = 25° C) = **8 mA** RO (f = 1KHz) = **16 mΩ**  TOP = for L7800C = **0 to 150° C**  RthJA = **50° C/W** | VO (TJ = 25° C) = **9 V**  IO  = **1.2 A**  VI (DC Input Voltage) = **35 V**  Vd (IO  = 1A, TJ = 25° C) = **2 V Typ.**  Id (TJ = 25° C) = **8 mA** RO (f = 1KHz) = **17 mΩ**  TOP = for L7800C = **0 to 150° C**  RthJA = **50° C/W** |
| **L7810C** | **L7812C** | **L7815C** | **L7818C** |
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| **Positive Voltage Regulator** | **Positive Voltage Regulator** | **Positive Voltage Regulator** | **Positive Voltage Regulator** |
| VO (TJ = 25° C) = **10 V**  IO  = **1.2 A**  VI (DC Input Voltage) = **35 V**  Vd (IO  = 1A, TJ = 25° C) = **2 V Typ.**  Id (TJ = 25° C) = **8 mA** RO (f = 1KHz) = **17 mΩ**  TOP = for L7800C = **0 to 150° C**  RthJA = **50° C/W** | VO (TJ = 25° C) = **12 V**  IO  = **1.2 A**  VI (DC Input Voltage) = **35 V**  Vd (IO  = 1A, TJ = 25° C) = **2 V Typ.**  Id (TJ = 25° C) = **8 mA** RO (f = 1KHz) = **18 mΩ**  TOP = for L7800C = **0 to 150° C**  RthJA = **50° C/W** | VO (TJ = 25° C) = **15 V**  IO  = **1.2 A**  VI (DC Input Voltage) = **35 V**  Vd (IO  = 1A, TJ = 25° C) = **2 V Typ.**  Id (TJ = 25° C) = **8 mA** RO (f = 1KHz) = **19 mΩ**  TOP = for L7800C = **0 to 150° C**  RthJA = **50° C/W** | VO (TJ = 25° C) = **18 V**  IO  = **1.2 A**  VI (DC Input Voltage) = **35 V**  Vd (IO  = 1A, TJ = 25° C) = **2 V Typ.**  Id (TJ = 25° C) = **8 mA** RO (f = 1KHz) = **22 mΩ**  TOP = for L7800C = **0 to 150° C**  RthJA = **50° C/W** |
| **L7824C** | **LM317T** |  |  |
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| **Positive Voltage Regulator** | **Positive Adjustable V. Regulator** |  |  |
| VO (TJ = 25° C) = **24 V**  IO  = **1.2 A**  VI (DC Input Voltage) = **40 V**  Vd (IO  = 1A, TJ = 25° C) = **2 V Typ.**  Id (TJ = 25° C) = **8 mA** RO (f = 1KHz) = **28 mΩ**  TOP = for L7800C = **0 to 150° C**  RthJA = **50° C/W** | VO = **1.25 to 37 V**  IO  = **1.5 A**  VI – VO (Input Output V. Differential) = **40 V**  IL(MIN) (Min. Load C. to Maintain Reg.) = **12 mA**  IADJ = **100 µA**  TJ  = **0 to 125° C**  STT  = **0.7 %/VO**  RθJA = **80° C/W** |  |  |
| **LM1085IT-3.3/NOPB** | **MIC29150-5.0WT** | **MIC29300-5.0WT** | **LM2574N-5G** |
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| **3 A Low Dropout Pst. V. Regulator** | **1.5 A Low Dropout V. Regulator** | **3 A Low Dropout V. Regulator** | **0.5 A Step-Down Switching V. Reg.** |
| VO = **3.3 V**  IO  = **5.5 A Typ.**  VI – VO (Input Output V. Differential) = **27 V**  IL(MIN) (Min. Load C. to Maintain Reg.) = **10 mA**  IGND = **10 mA Max**  TJ  = **-40 to 125° C**  V(ESD) = **±2000 V**  RθJA = **22.8° C/W** | VO = **5 V**  ILIM  = **2.1 A Typ.**  VI = **6 to 26 V**  ΔVOUT = **600 mV**  IGND = **22 mA Typ.**  IGNDDO = **22 mA Typ.**  TJ  = **-40 to 125° C**  RθJC = **2° C/W** | VO = **5 V**  ILIM  = **4.5 A Typ.**  VI = **6 to 26 V**  ΔVOUT = **600 mV Max**  IGND = **35 mA Max** IGNDDO = **1.7 mA Max**  TJ  = **-40 to 125° C**  RθJC = **2° C/W** | Vout = **5 V**  ICL  = **1 A Typ.**  Vin = **7 to 40V**  fO = **52 kHz Typ.** η = **77% Typ.**  ISTBY = **60 µA Typ.** IQ = **5 mA Typ.**  TJ  = **-40 to 125° C**  RθJA = **100° C/W** |
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