| • 1N5711-1 AVAILABLE IN JAN, JANTX, JANTXV AND JANS PER MIL-PRF-19500/444 • 1N5712-1 AVAILABLE IN JAN, JANTX, JANTXV AND JANS PER MIL-PRF-19500/445 • SCHOTTKY BARRIER DIODES • HERMETICALLY SEALED • METALLURGICALLY BONDED | | | | | | | | 1N5711 1N5711-1 1N5712-1 1N6857-1 1N6858-1 DSB2810 DSB5712 |
|---|----------------------------------|------------------------------|---|-------------|----------|-------------|--|--|
| MAXIMUM RATINGSOperating Temperature: -65°C to +150°C Storage Temperature: -65°C to +150°COperating Current: 5711 types 2810,5712 & 6858 types 6857 TYPE:33mA dc@ TL = +130°C, L = 3/8" :75mA dc@ TL = +110°C, L = 3/8" :75mA dc@ TL = +70°C, L = 3/8" Derate to 0 (zero)mA@+150°C | | | | | | | | |
| CDI MINIMUM MAXIMUM MAXIMUM MAXIMUM MAXIMUM ESDS TYPE BREAKDOWN FORWARD FORWARD LEAKAGE CURRENT CAPACITANCE @ CLASS VOLTAGE VOLTAGE VIL O LIAGE VIL O LIAGE VIL O LIAGE CAPACITANCE @ CLASS | | | | | | | POLARITY BAND ICATHODEI 150 / .170 3.81 / 4.32 1000 ICATHODEI 1000 25 400 0.018 / 0.022 0.46 / 0.58 DIA All dimensions in INCH mm | |
| | V _{BR} @ 10 μA VOLTS | V _F @1mA VOLTS | V _F ^{@I} F MILLIAMPS | nA R | @ V R | PICO FARADS | с _т | |
| DSB2810 | 20 | 0.41 | 1.0@35 | 100 | 15 | 2.0 | 1 | |
| 1N5711,-1 | 70 | 0.41 | 1.0@15 | 200 | 50 | 2.0 | 1 | FIGURE 1 |
| DSB5712 | 20 | 0.41 | 1.0@35 | 150 | 16 | 2.0 | 1 | |
| 1N5712-1 | 20 | 0.41 | 1.0@35 | 150 | 16 | 2.0 | 1 | |
| 1N6857-1 | 20 | 0.35 | 0.75@35 | 150 | 16 | 4.5 | 2 | DESIGN DATA |
| 1N6858-1 | 70 | 0.36 | 0.65@15 | 200 | 50 | 4.5 | 2 | DESIGN DATA |
| NOTE: | Effective Minority | Carrier Lifetir | ne (τ) is 100 l | Pico Second | l Is | | | CASE: Hermetically sealed glass case per MIL-PRF-19500/444 and /445 DO-35 Outline LEAD MATERIAL: Copper clad steel. |

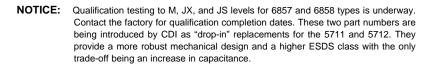
LEAD FINISH: Tin / Lead

THERMAL RESISTANCE: ($R_{\Theta JEC}$): 250 °C/W maximum at L = .375 inch

THERMAL IMPEDANCE: (ZQJX): 40 °C/W maximum

POLARITY: Cathode end is banded.

MOUNTING POSITION: Any.





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1N5711, 1N5712, 1N6857, 1N6858 DSB5712 and DSB2810 INCLUDING -1 VERSIONS

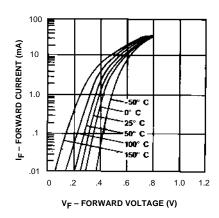
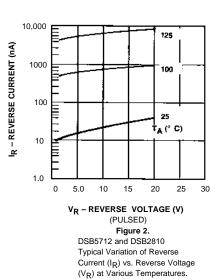


Figure 1. I-V Curve Showing Typical Forward Voltage Variation with Temperature for the DSB5712 and DSB2810 Schottky Diodes.



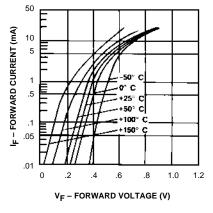
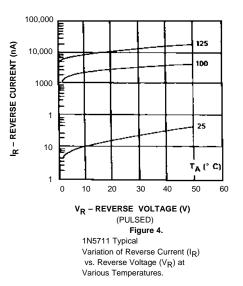


Figure 3. I-V Curve Showing Typical Forward Voltage Variation with Temperature for Schottky Diode 1N5711.



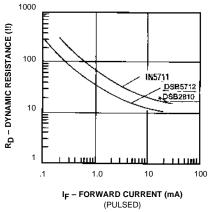


Figure 5. Typical Dynamic Resistance (R_D) vs. Forward Current (I_F).