 • 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	RATINGS							[1
Operating Temperature: -65° C to $+150^{\circ}$ C Storage Temperature: -65° C to $+150^{\circ}$ C Operating Current: 5711 types $2810,5712 \& 6858$ types :75mA dc@ TL = +110^{\circ}C, L = 3/8" 6857 TYPE :75mA dc@ TL = +70^{\circ}C, L = 3/8"									. <u>.068 / .076</u> 1.73 / 1.93	
	Derating:	all type	s:	Dera	ate to 0 (zero)mA@'+	150°C				
									POLARITY BAND ICATHODE	
	ELECTRICAL CHARACTERISTICS @ 25°C, unless otherwise specified.								<u>1.000</u> Min. 25.400	
	CDI TYPE NUMBER	MINIMUM BREAKDOWN VOLTAGE	MAXIMUM FORWARD VOLTAGE	MAXIMUM FORWARD VOLTAGE	MAXIMUM REVERSE LEAKAGE CURRENT	MAXIMUM CAPACITANCE @ V _R = 0 VOLTS f = 1.0 MHz	ESDS CLASS		0.018 / 0.022 0.46 / 0.58 0IA	
		V _{BR} @ 10 _μ A	V _F @1mA	V _F @ I _F	I _R @ V _R	1 = 1.0 mil2	с _т		All dimensions in <u>INCH</u> mm	
		VOLTE	VOLTO							i -

FIGURE 1

DESIGN DATA

L

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_{QJEC}): 250 °C/W maximum at L = .375 inch

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

POLARITY: Cathode end is banded.

MOUNTING POSITION: Any.



VOLTS

20

70

20

20

20

70

DSB2810

1N5711.-1

DSB5712

1N5712-1

1N6857-1

1N6858-1

VOLTS

0.41

0.41

0.41

0 4 1

0.35

0.36

NOTE: Effective Minority Carrier Lifetime (τ) is 100 Pico Seconds

trade-off being an increase in capacitance.

MILLIAMPS

1.0@35

1.0@15

1.0@35

1.0@35

0.75@35

0.65@15

NOTICE: Qualification testing to M, JX, and JS levels for 6857 and 6858 types is underway.

Contact the factory for qualification completion dates. These two part numbers are

being introduced by CDI as "drop-in" replacements for the 5711 and 5712. They provide a more robust mechanical design and a higher ESDS class with the only

VOLTS

15

50

16

16

16

50

nA

100

200

150

150

150

200

PICO FARADS

2.0

2.0

2.0

2.0

4.5

4.5

1

1

1

2

2

COMPENSATED DEVICES INCORPORATED

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

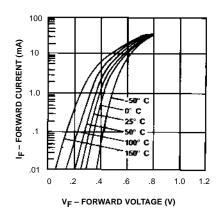
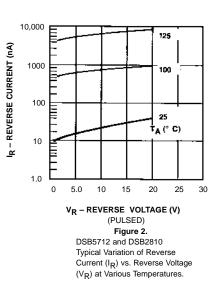


Figure 1. I-V Curve Showing Typical Forward Voltage Variation with Temperature for the DSB5712 and DSB2810 Schottky Diodes.



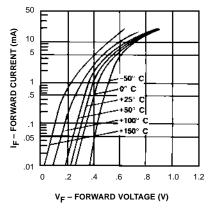
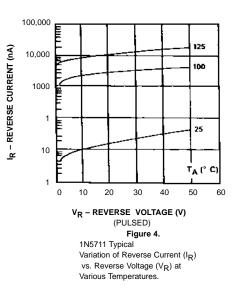
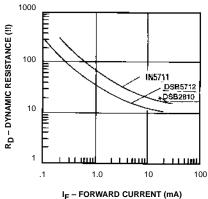


Figure 3. I-V Curve Showing Typical Forward Voltage Variation with Temperature for Schottky Diode 1N5711.





IF - FORWARD CURRENT (MA (PULSED) Figure 5. Typical Dynamic Resistance (R_D) vs. Forward Current (I_F).