1N5711UB, UBCA, UBCC, UBD



Schottky Barrier Diode

Rev. V1

Features

- Qualified to MIL-PRF-19500/444
- Available in JAN, JANTX, JANTXV and JANS
- Low Reverse Leakage
- Ideal For Space, Military, & Other High Reliability Applications
- ESD Sensitive to Class 1C



Electrical Characteristics (T_A = +25°C unless otherwise specified)

Parameter	Test Conditions	Symbol	Units	Min.	Max.
Reverse Breakdown Voltage	I _R = 10 μA dc	V _{(BR)1}	V dc	70	_
Reverse Breakdown Voltage	$T_A = -55^{\circ}C$ $I_R = 10 \mu A dc$	V _{(BR)2}	V dc	70	_
Forward Voltage	I _F = 1 mA dc	V _{F1}	V dc	_	0.410
Forward Voltage	I _F = 15 mA dc	V _{F2}	V dc	_	1.0
Forward Voltage	$T_A = -55^{\circ}C$ $I_F = 1 \text{ mA dc}$	V _{F3}	V dc	_	.55
Forward Voltage	$T_A = -55^{\circ}C$ $I_F = 15 \text{ mA dc}$	V_{F4}	V dc	_	1.0
Reverse Current	V _R = 50 V dc	I _{R1}	nA dc	_	200
Reverse Current	$T_A = +150^{\circ}C$ $V_R = 50 \text{ V dc}$	I _{R2}	μA dc	_	200
Capacitance	$V_R = 0$, $f = 1$ MHz, $V_{sig} = 50$ mV (pk)	С	pF	_	2.0
Effective Carrier Lifetime	(See DESC Drawing C68001)	† _{CL}	ps		100

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Absolute Maximum Ratings (T_A = +25°C unless otherwise specified)

Ratings	Symbol	Value
Working Voltage	V _{RWM}	50 V (pk)
Reverse Current	I _{O1}	33 mA dc ⁽²⁾
Reverse Current (1)	I _{O2}	5 mA dc
Operating & Storage Temperature Range	T _J , T _{STG}	-65°C to +150°C

Notes:

- (1) Maximum IO rating to ensure †_{CL} compliance (< 100 ps)
- (2) At $T_{SP} = +140^{\circ}$ C, derate I_{O} to 0 at +150°C.

Thermal Characteristics (T_A = +25°C unless otherwise specified)

Characteristics		Max. Value
Thermal Resistance, Junction to Solder Pad	$R_{\theta JSP}$	170°C/W

Mechanical And Packaging Information

Case: Ceramic

Terminals: Gold plating over nickel

Marking: Laser scribed; part number, date code, manufacturers ID. JANS devices include serial number

Weight: Approximately 4 grams

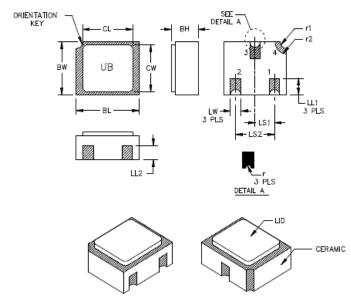
Tape and Reel Option Available: Contact factory



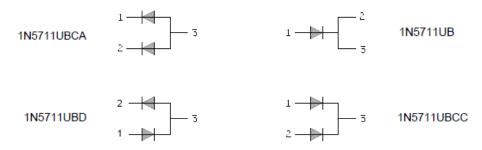
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Outline Drawing (UB)



		Dimensions				Dimensions			
Symbol	nbol Inches Millimeters		neters	Symbol	Inches		Millimeters		
	Min	Max	Min	Max		Min	Max	Min	Max
BH	.046	.056	1.17	1.42	LS ₁	.035	.040	0.89	1.02
BL	.115	.128	2.92	3.25	LS ₂	.071	.079	1.81	2.01
BW	.085	.108	2.16	2.74	LW	.016	.024	0.41	0.61
CL		.128		3.25	r		.008		0.20
CW		.108		2.74	r1		.012		0.31
LL1	.022	.038	0.56	0.96	r2		.022		0.56
LL2	.017	.035	0.43	0.89					



NOTES:

- Dimensions are in inches.
- 2. Millimeters are given for general information only.
- 3. Hatched areas on package denote metallized areas.
- 4. Pad 4 = Shielding connected to the lid.
- In accordance with ASME Y14.5M, diameters are equivalent to φx symbology.

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