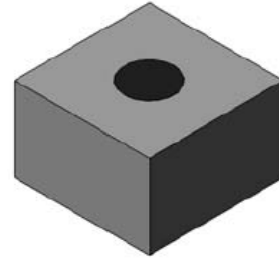


Schottky Barrier Diode Die

Rev. V1

Features

- Qualified to MIL-PRF-19500/444
- Compatible With All Wire Bonding And Die Attach Techniques with The Exception Of Solder Reflow
- Silicon Dioxide Passivated
- Ideal For Space, Military, & Other High Reliability Applications
- Available In Commercial Version As CD5711



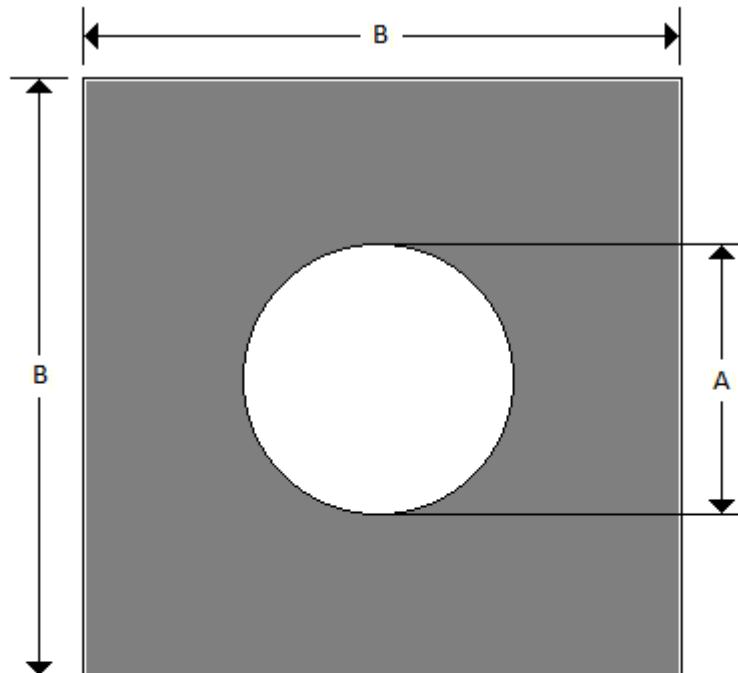
Electrical Characteristics ($T_A = +25^\circ\text{C}$ unless otherwise specified)

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

Absolute Maximum Ratings ($T_A = +25^\circ\text{C}$ unless otherwise specified)

Ratings	Symbol	Value
Working Voltage	V_{RWM}	50 V (pk)
Reverse Current	I_{O1}	33 mA dc
Reverse Current	I_{O2}	5 mA dc
Operating & Storage Temperature Range	T_J, T_{STG}	-65°C to $+150^\circ\text{C}$

Outline Drawing (Die)



1N5711 Dimensions				
Ltr	Inches		Millimeters	
	Min	Max	Min	Max
A	.004	.006	.102	.152
B	.011	.013	.279	.330

NOTES:

1. Dimensions are in inches. Millimeters are given for general information only.
2. The physical characteristics of the die are:
 Metallization:
 Top (anode): Al.
 Back (cathode): Au.
 Al thickness: 14,000 Å minimum.
 Gold thickness: 5,600 Å minimum.
 Chip thickness: .008 inch \pm (.203 mm) \pm .002 inch (\pm .051 mm).
3. In accordance with ASME Y14.5M, diameters are equivalent to \varnothing symbology.

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