

SILICON BEAM LEAD SCHOTTKY DIODES

SERIES TEE

DESCRIPTION:

The **ABL1601A** is Designed for Low Noise Mixer, Phase Detector and Sampler Applications up to 18.0 GHz.

FEATURES INCLUDE:

- **NF** = 7.2 dB Max. @ 16 GHz
- Excellent Matching Characteristics
- Lead Strength = 4 Grams min.

MAXIMUM RATINGS

I_F	100 mA
V_R	2 V
P_{DISS}	100 mW (per junction)
T_J	-65 °C to +175 °C
T_{STG}	-65 °C to +200 °C
θ_{JC}	1.5 °C/mW

PACKAGE STYLE – BL711A

Technical drawing of the BL711A package showing dimensions A, B, C, D, E, and F. Dimension E is labeled as TYP.

	MINIMUM INCHES/MM	MAXIMUM INCHES/MM
A	.007/0.1778	.009/0.2286
B	.020/0.508	.022/0.5588
C	.007/0.1778	.009/0.2286
D	.009/0.2286	.011/0.2794
E	.004/0.1016	.006/0.1524
F	.015/0.381	.0135/.3429
	C _p =.04pF	
	L _p =10nH	

ORDER CODE: ABL1601A

CHARACTERISTICS T_C = 25 °C

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
V_{BR}	I _R = 10 μA	2.0			V
V_F	I _F = 1.0 mA	270		320	mV
C_{J0} ΔC_{J0}	V _R = 0 V f = 1.0 MHz		0.08	0.1 0.02	pF
R_S ΔR_S	R _S = [(V _F 10 mA - V _F 1 mA) - (V _F 100 μA - V _F 10 μA)] / 0.009		10	12 2.0	Ω
NF	R _F = 16 GHz NF(I _F) = 1.5 dB L _O = 0 dBm R _L = 0 Ω I _F = 30 MHz			7.2	dB