

DIGITRON SEMICONDUCTORS

FJT1100, FJT1101

ULTRA LOW LEAKAGE DIODES

$I_R = 1.0 \text{ pA (max) @ 5V (FJT1100)}$

$BV = 20 \text{ V (min) (FJT1101)}$

MAXIMUM RATINGS

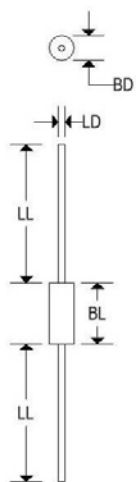
Characteristics	Value
Storage temperature range	-55° to +200°C
Maximum junction operating temperature	+175°C
Lead temperature	+260°C
Power dissipation	
Maximum total power dissipation at 25°C ambient	250 mW
Linear power derating factor (from 25°C)	1.67 mW/°C
Working inverse voltage	
FJT1100	25V
FJT1101	15V
Continuous forward current	150 mA

ELECTRICAL CHARACTERISTICS (25°C ambient temperature unless otherwise noted)

Symbol	Characteristics		Min	Max	Units	Test Conditions
BV	Breakdown voltage	FJT1100 FJT1101	30 20		V	$I_R = 5.0\mu\text{A}$
I_R	Reverse current	FJT1100 FJT1101		1.0 10 5.0 15	pA	$V_R = 5.0\text{V}$ $V_R = 15\text{V}$ $V_R = 5.0\text{V}$ $V_R = 15\text{V}$
V_F	Forward voltage	FJT1100 FJT1101		1.05 1.10	V	$I_F = 50\text{mA}$
C	Capacitance	FJT1100 FJT1101		1.5 1.8	pF	$V_R = 0, f = 1\text{MHz}$

MECHANICAL CHARACTERISTICS

Case	DO-35
Marking	Body painted, alpha-numeric
Polarity	Cathode band



	DO-35			
	Inches		Millimeters	
	Min	Max	Min	Max
BD	0.055	0.090	1.400	2.290
BL	0.120	0.200	3.050	5.080
LD	0.018	0.022	0.460	0.560
LL	1.000	1.500	25.400	38.100

Available Non-RoHS (standard) or RoHS compliant (add PBF suffix).

Available as "HR" (high reliability) screened per MIL-PRF-19500, JANTX level. Add "HR" suffix to base part number.

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