



# Frontier Electronics Corp.

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## 200mA Advanced Schottky Barrier Diode (Surface mount small signal type)

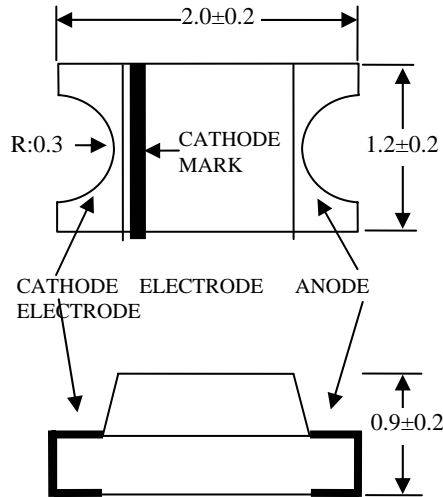
### ASD723-LFR

#### FEATURES

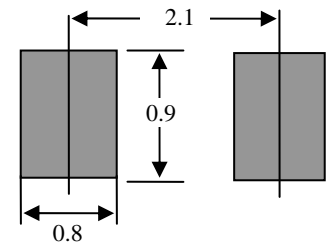
- EXTREMELY LOW VF
- EXTREMELY THIN PACKAGE
- LOW STORED CHARGE
- MAJORITY CARRIER CONDUCTION
- LEAD FREE

#### MECHANICAL DATA

- CASE: SOD-323, DIMENSIONS IN MILLIMETERS
- TERMINALS: SOLDERABLE PER MIL-STD 750 METHOD 2026
- POLARITY: CATHODE INDICATED BY COLOR BAND
- WEIGHT: 0.0045 GRAMS



#### Recommended Land Pattern Dimension



#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

RATINGS	SYMBOL	ASD723-LFR	UNITS
BREAK DOWN VOLTAGE	BV	30	V
CONTINUOUS REVERSE VOLTAGE	V <sub>R</sub>	30	V
OPERATION CURRENT	I <sub>O</sub>	200	mA
PEAK FORWARD SURGE CURRENT 8.3ms 1/2 Sine Wave	I <sub>FSM</sub>	1.5	A
TYPICAL JUNCTION CAPACITANCE (NOTE 1)	C <sub>J</sub>	20	PF
STORAGE TEMPERATURE RANGE	T <sub>STG</sub>	- 40 TO + 125	°C
OPERATING TEMPERATURE RANGE	T <sub>OP</sub>	- 40 TO + 125	°C

#### ELECTRICAL CHARACTERISTICS (A<sub>T</sub> T<sub>A</sub> =25°C UNLESS OTHERWISE NOTED)

CHARACTERISTICS	SYMBOL	ASD723-LFR	UNITS
MAXIMUM FORWARD VOLTAGE AT I <sub>O</sub> DC	V <sub>F</sub>	0.55	V
MAXIMUM DC REVERSE CURRENT AT V <sub>R</sub> =30V	I <sub>R</sub>	15	μA
MARKING		4	

NOTE: 1. MEASURED AT 1.0 MHZ AND APPLIED REVERSE VOLTAGE OF 10.0 V

# RATINGS AND CHARACTERISTIC CURVE ASD723-LFR

FIG. 1 - FORWARD VOLTAGE CHARACTERISTICS

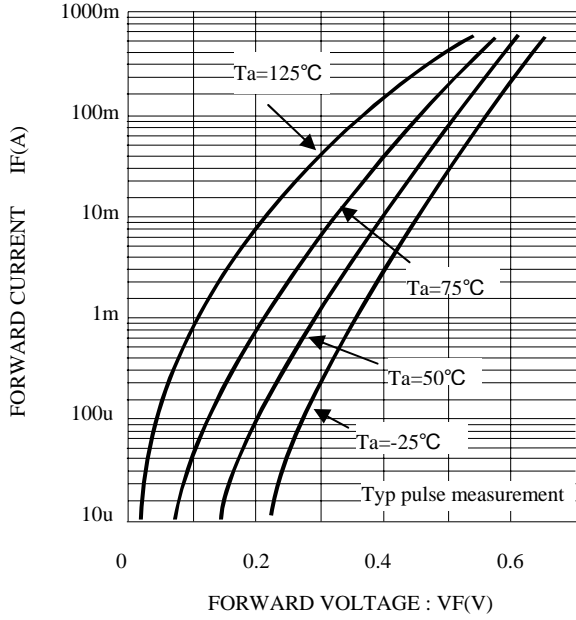


FIG. 2 - REVERSE VOLTAGE CHARACTERISTICS

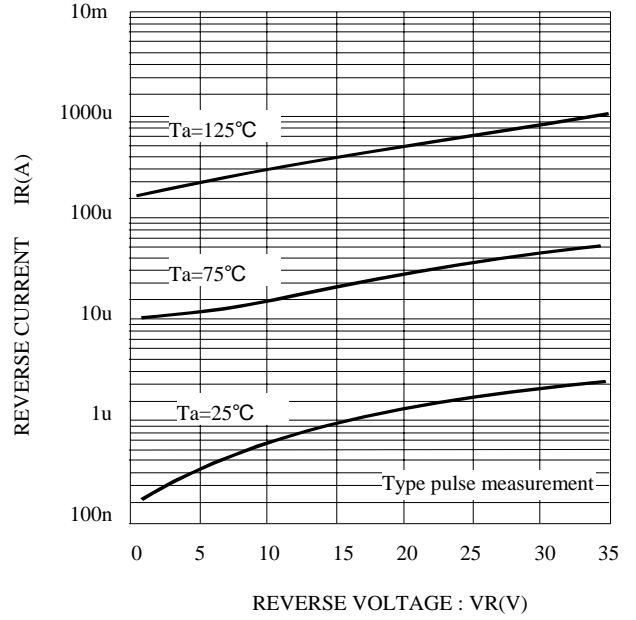


FIG. 3 - CAPACITANCE BETWEEN TERMINALS

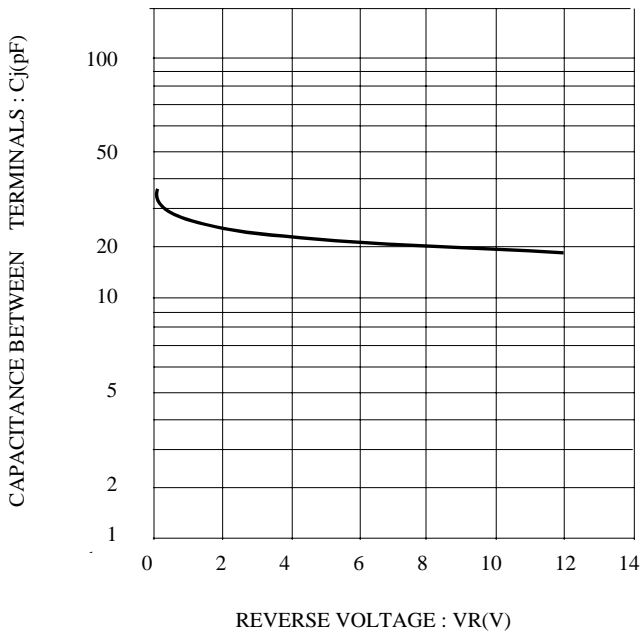


FIG. 4 - DERATING CURVE (MOUNTING ON GLASS EPOXY PCBS)

