

Schottky Barrier Rectifiers

FEATURES

- Low Forward Voltage Drop
- Extremely Small DFN1610-2L Package
- Surface Device Type Mounting
- RoHS Compliant
- Green EMC
- Band Indicates Cathode
- Marking: JU4
- Tape and reel: 3,000Pcs/ 7" reel

APPLICATIONS

- Low voltage rectification
- Reverse polarity protection
- Low power consumption applications

PACKAGE OUTLINE



DFN1610-2L

MAXIMUM RATING (T_{amb}=25 °C)

Symbol	Parameter	Value	Units
V _{RRM}	Maximum repetitive reverse voltage	40	V
V _R	Maximum DC blocking reverse voltage	40	V
I _{F(AV)}	Average Forward Current	2	A
I _{FSM}	Peak Forward Surge Current (At 8.3ms single half sine-wave)	20	A
T _J	Operating Junction Temperature	-50 to +125	°C
T _{STG}	Storage Temperature Range	-50 to +150	°C

These ratings are limiting values above which the serviceability of the diode may be impaired.

ELECTRICAL CHARACTERISTICS (T_{amb}=25 °C)

Parameter	Symbol	Min.	Typ.	Max.	Unit
Breakdown Voltage at I _R =0.1mA	V _{BR}	40			V
Reverse Leakage Current at V _R =40V	I _R			80	μA
Forward Voltage at I _F =1A	V _F		0.37	0.42	V
Forward Voltage at I _F =2A	V _F			0.50	V
Junction Capacitance V _R = 0V, f = 1MHz	C _J		340	400	pF

RATING AND CHARACTERISTICS CURVES (RB10U40FD)

Fig 1 Typical Forward Current Derating Curve

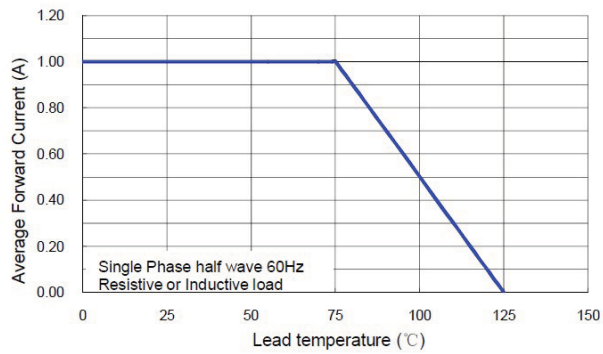


Fig 2 Total Capacitance vs. Reverse Voltage

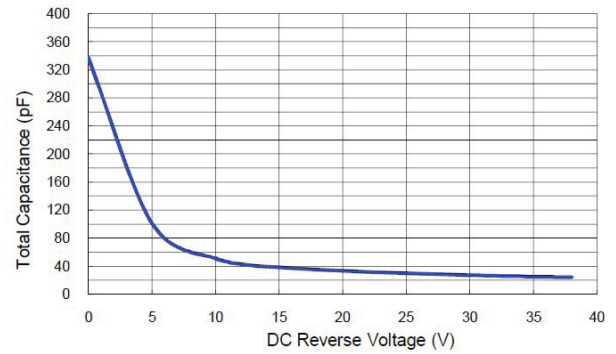


Fig 3 Typical Instantaneous Forward Characteristics

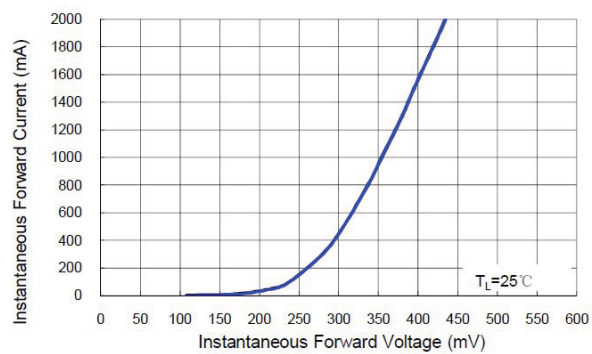
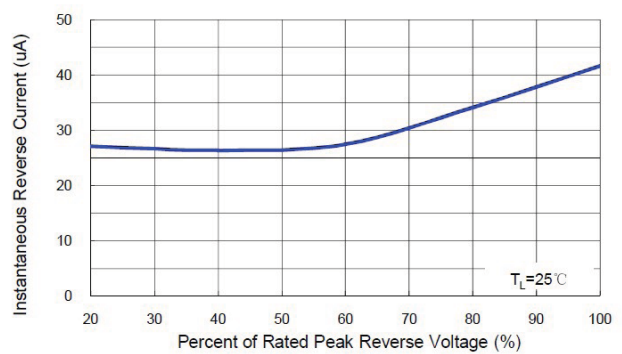
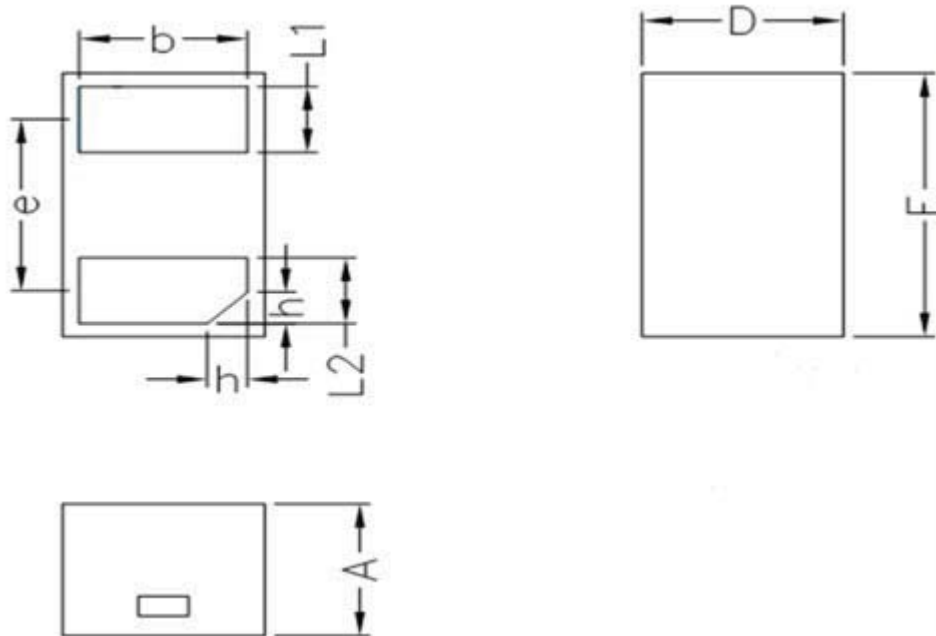


Fig 4 Typical Reverse Characteristics



DFN1610-2L PACKAGE OUTLINE DIMENSIONS



COMMON DIMENSION(mm)			
REF	Min	Nom	Max
D	0.95	1.00	1.05
E	1.55	1.60	1.65
L1	0.35	0.40	0.45
L2	0.35	0.40	0.45
b	0.75	0.80	0.85
e	1.09BSC		
A	0.45	0.50	0.55
h	0.15	0.20	0.25

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