

## **Glass Passivated Fast Recovery Bridge Rectifier**

Voltage

1000 V

Current

**8A** 

HF

#### **Features**

• Ideal for printed circuit boards

- Fast reverse recovery time
- Lead free in compliance with EU RoHS 2.0
- Halogen-free according to IEC 61249 standard

#### **Mechanical Data**

• Case : DXK Package

• Terminals : Solderable per MIL-STD-750, Method 2026

• Approx. Weight: 1.29 grams

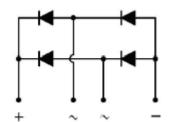
### **Application**

- USB PD & NB Adapter
- Monitor power adapter
- Consumer Power
- Quick Charger

Key Parameters			
Parameter	Value		
$V_{RRM}$	1000V		
I <sub>F</sub> (AV)	8A		
I <sub>FSM</sub>	150A		
I <sub>R</sub>	5uA		
T <sub>rr</sub>	250ns		
Package	DXK		

# **DXK**







## **Maximum Ratings and Thermal Characteristics** ( $T_A = 25$ °C unless otherwise noted)

PARAMETER		SYMBOL	LIMIT	UNITS	
Maximum Repetitive Peak Reverse Voltage		V <sub>RRM</sub>	1000	V	
Maximum RMS Voltage		V <sub>RMS</sub>	700	V	
Maximum DC Blocking Voltage		V <sub>DC</sub>	1000	V	
Maximum Average Forward Current	With heatsink		8	Δ.	
	Without heatsink	l <sub>F(AV)</sub>	1.9	А	
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave	@ T <sub>A</sub> = 25 °C		150	_	
Superimposed On Rated Load	@ T <sub>A</sub> = 125 °C	I <sub>FSM</sub>	120	A	
Peak Forward Surge Current : 1.0 ms Single Half Square -Wave	@ T <sub>A</sub> = 25 °C	I <sub>FSM</sub>	300	Α	
Superimposed On Rated Load	@ T <sub>A</sub> = 125 °C		230		
I <sup>2</sup> t rating for fusing (t = 8.3ms)	I²t	93	A <sup>2</sup> S		
Typical Junction Capacitance		Сл	50	pF	
Measured at 1 MHZ And Applied V <sub>R</sub> = 4 V  Maximum Reverse Recovery Time (Note 2)		Trr	250	ns	
	R <sub>ӨЈА</sub>	12			
Typical Thermal Resistance (Note 1) (with heatsink)		Rejl	8	°C/W	
		ReJc	4		
Operating junction and storage temperature range		TJ, TSTG	-55~150	°C	
Mounting torque @ Recommend torque:5Kg.cm		Tor	8	Kg.cm	

## **Electrical Characteristics** (T<sub>A</sub> = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	VF	I <sub>F</sub> = 4 A, T <sub>J</sub> = 25 °C	1	1	1.3	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> = 1000 V, T <sub>J</sub> = 25 °C	-	-	5	
		V <sub>R</sub> = 1000 V,T <sub>J</sub> = 125 °C	-	-	100	uA

#### NOTES:

- 1. Device mounted on 10 cm \* 9.4 cm \* 2.6 cm Fin type heat sink.
- 2. Measured with IF = 0.5 A, IR= 1 A, IRR = 0.25 A.

October 15,2025 RDXK810-REV.01 Page 2



#### **TYPICAL CHARACTERISTIC CURVES**

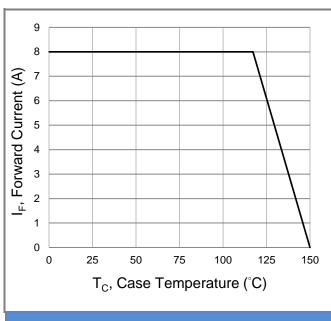


Fig.1 Forward Current Derating Curve

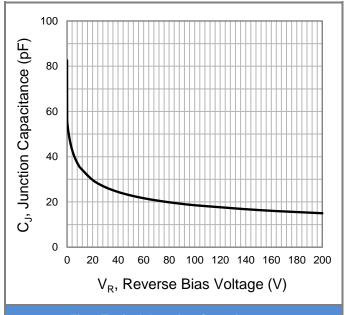
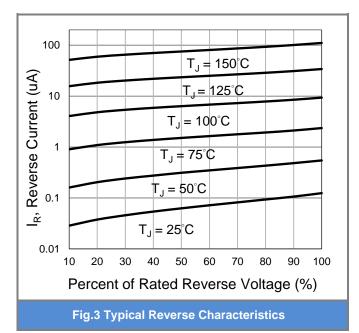
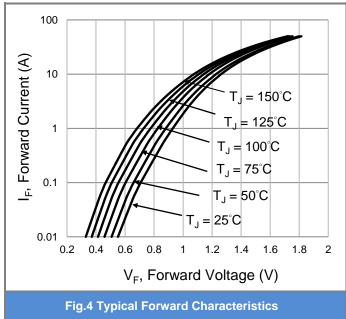


Fig.2 Typical Junction Capacitance



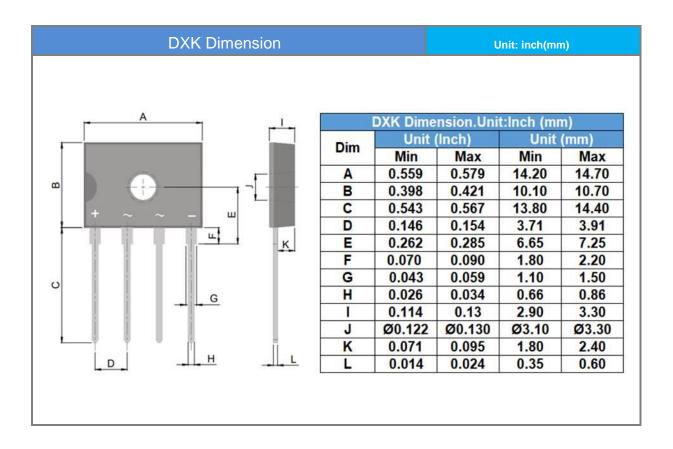




### **Product and Packing Information**

Part No.	Package Type	Packing Type	Marking
RDXK810	DXK	35pcs / Tube	RDXK810

### **Packaging Information**



October 15,2025 RDXK810-REV.01 Page 4



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October 15,2025 RDXK810-REV.01 Page 5