

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

Voltage

1000 V

Current

4A

HF

### **Features**

• Ideal for printed circuit boards

- UL recognition file number E526209
- 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

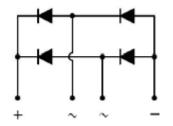
### **Application**

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

Key Parameters			
Parameter	Value		
V <sub>RRM</sub>	1000V		
I <sub>F</sub> (AV)	4A		
I <sub>FSM</sub>	120A		
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		$V_{RMS}$	700	V	
Maximum DC Blocking Voltage		V <sub>DC</sub>	1000	V	
Maximum Average Forward Current	With heatsink		4		
	Without heatsink	l <sub>F(AV)</sub>	1.8	Α	
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave	@ T <sub>A</sub> = 25 °C		120	А	
Superimposed On Rated Load	@ T <sub>A</sub> = 125 °C	I <sub>FSM</sub>	96		
Peak Forward Surge Current : 1.0 ms Single Half Square -Wave	@ T <sub>A</sub> = 25 °C	I <sub>FSM</sub>	240	Α	
Superimposed On Rated Load	@ T <sub>A</sub> = 125 °C		192		
I <sup>2</sup> t rating for fusing (t = 8.3ms)	I²t	60	A <sup>2</sup> S		
Typical Junction Capacitance  Measured at 1 MHZ And Applied V <sub>R</sub> = 4 V		Сл	40	pF	
Maximum Reverse Recovery Time (Note 2)		Trr	250	ns	
	RеJA	15			
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	V <sub>F</sub>	I <sub>F</sub> = 2 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	٨
		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.

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#### **TYPICAL CHARACTERISTIC CURVES**

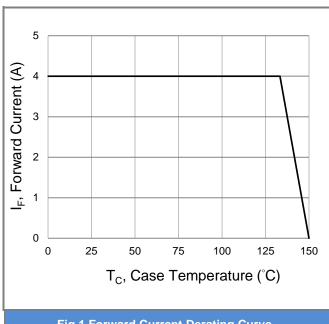
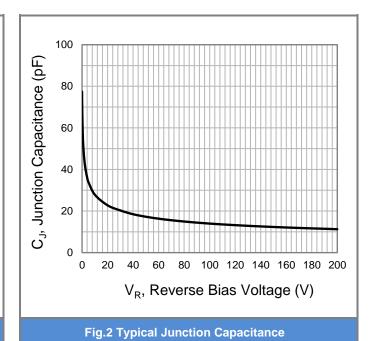
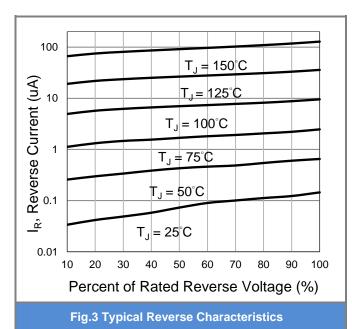
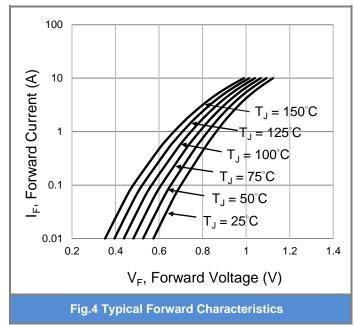


Fig.1 Forward Current Derating Curve





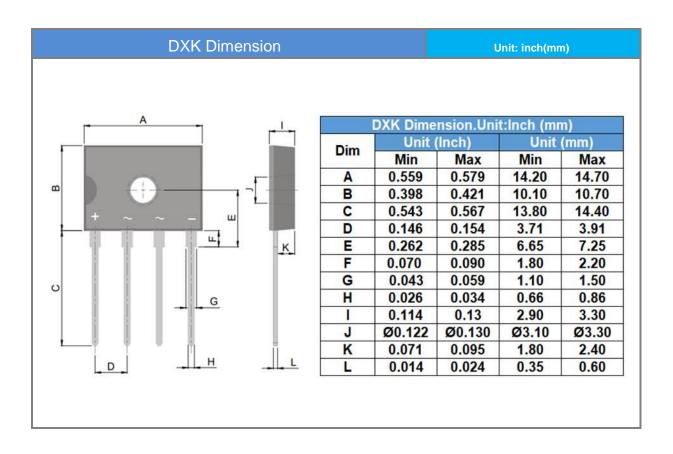




### **Product and Packing Information**

Part No.	Package Type	Packing Type	Marking
RDXK410	DXK	35pcs / Tube	RDXK410

### **Packaging Information**



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