

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

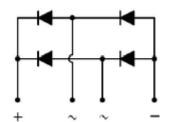
Application

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

Key Parameters			
Parameter	Value		
V _{RRM}	1000V		
I _F (AV)	8A		
I _{FSM}	150A		
I _R	5uA		
T _{rr}	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 _{RRM}	1000	V	
Maximum RMS Voltage		V _{RMS}	700	V	
Maximum DC Blocking Voltage		V _{DC}	1000	V	
Maximum Average Forward Current	With heatsink		8		
	Without heatsink	l _{F(AV)}	1.9	Α	
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave	@ T _A = 25 °C		150	А	
Superimposed On Rated Load	@ T _A = 125 °C	I _{FSM}	120		
Peak Forward Surge Current: 1.0 ms Single Half Square -Wave	@ T _A = 25 °C		300	Α	
Superimposed On Rated Load	@ T _A = 125 °C	I _{FSM}	230		
I ² t rating for fusing (t = 8.3ms)	I²t	93	A ² S		
Typical Junction Capacitance Measured at 1 MHZ And Applied V _R = 4 V		Сл	50	pF	
Maximum Reverse Recovery Time (Note 2)		Trr	250	ns	
	Reja	12			
Typical Thermal Resistance (Note 1) (with heatsink)		Rejl	8	°C/W	
		ReJc	4		
Operating junction and storage temperature range		T _J , T _{STG}	-55~150	°C	
Mounting torque @ Recommend torque:5Kg.cm		Tor	8	Kg.cm	

Electrical Characteristics (T_A = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	VF	I _F = 4 A, T _J = 25 °C	1	1	1.3	V
Reverse Current	I _R	V _R = 1000 V, T _J = 25 °C	-	-	5	
		V _R = 1000 V,T _J = 125 °C	-	-	100	uA

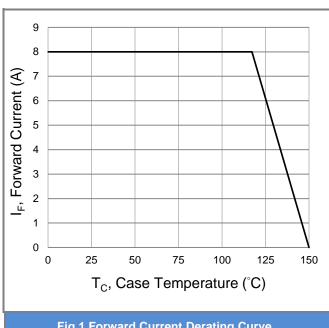
NOTES:

- 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.

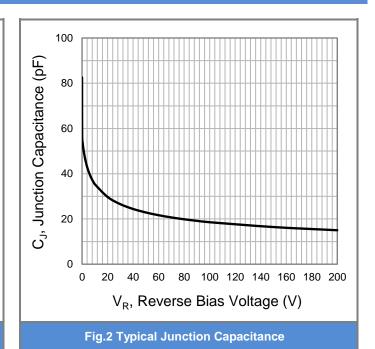
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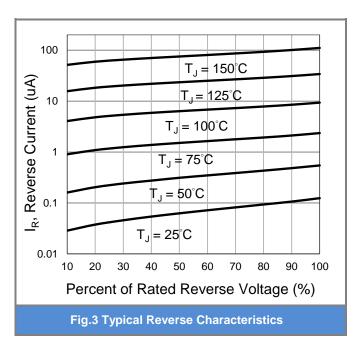


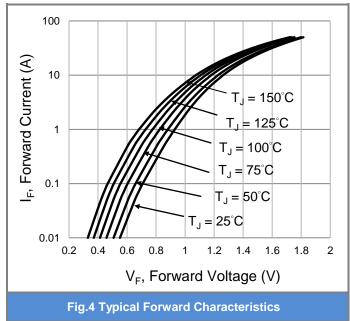
TYPICAL CHARACTERISTIC CURVES









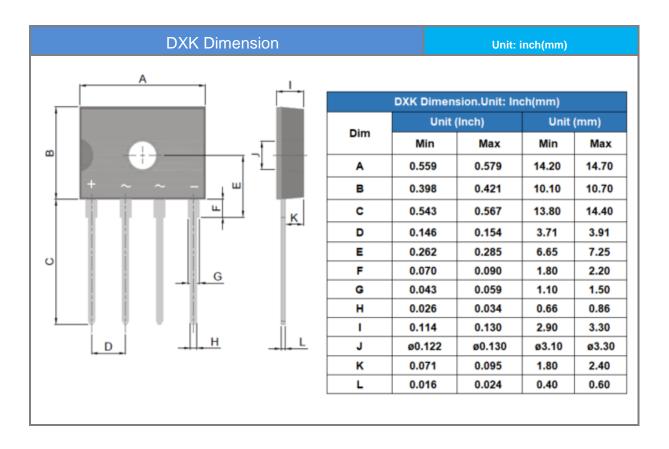




Product and Packing Information

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

Packaging Information



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