

Glass Passivated Bridge Rectifier

Voltage

1000 V

Current

3A

Features

• Ideal for printed circuit boards

• 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: 0.0455 ounces, 1.29 grams

Application

• USB PD & NB Adapter(<65W)

• Monitor power adapter (<100W)

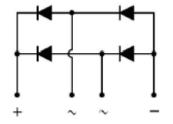
• Consumer Power (<150W)

Quick Charger (>45W)

Key Parameters			
Parameter	Value		
V _{RRM}	1000V		
I _F (AV)	3A		
I _{FSM}	90A		
I _R	5uA		
Package	DXK		

DXK







Maximum Ratings and Thermal Characteristics ($T_A = 25$ $^{\circ}C$ 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		3	
	Without heatsink	I _{F(AV)}	1.9	A
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 25 °C		90	
	@ T _A = 125 °C	IFSM	72	A
Peak Forward Surge Current : 1.0 ms Single Half Square -Wave Superimposed On Rated Load	@ T _A = 25 °C		170	_
	@ T _A = 125 °C	IFSM	128	A
I ² t rating for fusing (t = 8.3ms)	I²t	33.6	A ² S	
Typical Junction Capacitance				-
Measured at 1 MHZ And Applied V _R = 4 \	CJ	28	pF	
	Reja	17		
Typical Thermal Resistance (Note 1) (with heatsink)		R _{θJL}	8	°C/W
		ReJc	7	
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	V _F	I _F = 1.5 A, T _J = 25 °C	ı	ı	1.05	V
Reverse Current	I _R	V _R = 1000 V, T _J = 25 °C	ı	ı	5	
		V _R = 1000 V,T _J = 125 °C	-	1	100	uA

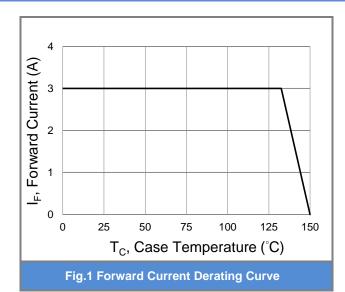
NOTES:

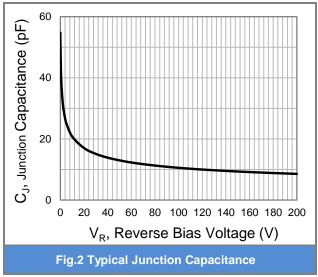
1. Device mounted on 10 cm * 9.4 cm * 2.6 cm Fin type heat sink

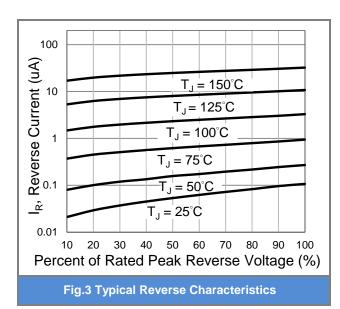
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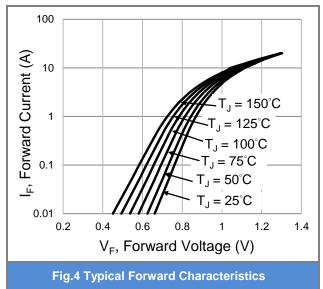


TYPICAL CHARACTERISTIC CURVES







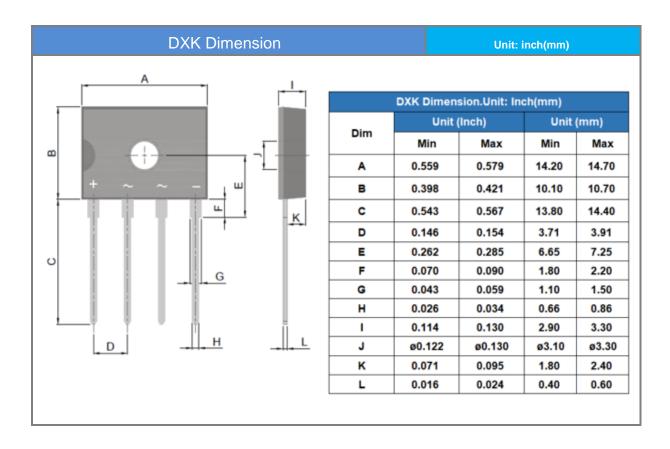




Part No. Marking Code Version

Approved Part No.	Package Type	Packing Type	Marking
DXK310	DXK	35pcs / Tube	DXK310

Packaging Information



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