

Glass Passivated Bridge Rectifier

Voltage

1000 V

Current

3A

Features

• Ideal for printed circuit boards

- UL recognition file number E526209
- 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

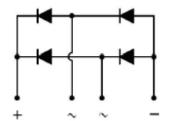
Application

- USB PD & NB Adapter(<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 °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	@ T _A = 25 °C		90	А	
Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 125 °C	I _{FSM}	72		
Peak Forward Surge Current : 1.0 ms	@ T _A = 25 °C		170	А	
Single Half Square -Wave Superimposed On Rated Load	@ T _A = 125 °C	I _{FSM}	128		
I ² t rating for fusing (t = 8.3ms)	I²t	33.6	A ² S		
Typical Junction Capacitance		CJ	28		
Measured at 1 MHZ And Applied $V_R = 4 V_R$	CJ	20	pF		
	RеJA	17	°C/W		
Typical Thermal Resistance (Note 1) (with heatsink)		R _{0JL}			8
		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	-	-	1.05	V	
Reverse Current	I _R	V _R = 1000 V, T _J = 25 °C	-	-	5	uA	
		V _R = 1000 V,T _J = 125 °C	-	-	100		

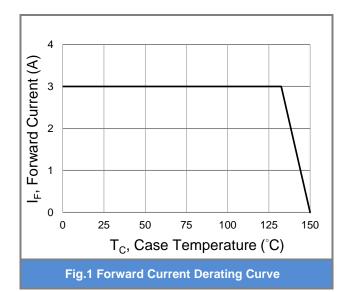
NOTES:

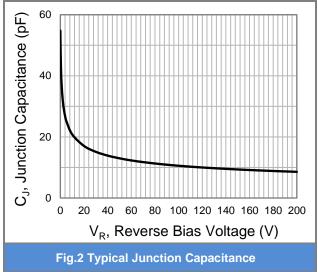
1. Device mounted on 10 cm * 9.4 cm * 2.6 cm Fin type heat sink

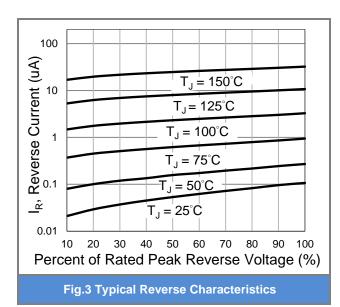
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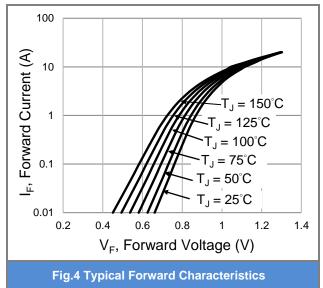


TYPICAL CHARACTERISTIC CURVES







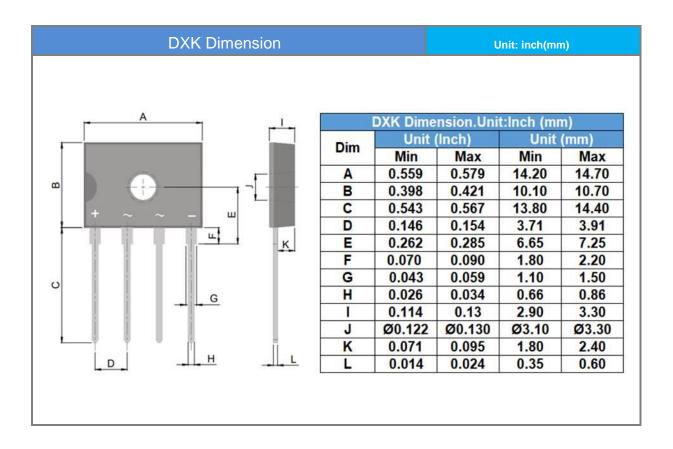




Product and Packing Information

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

Packaging Information



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