

Glass Passivated Bridge Rectifier

Voltage

1000 V

Current

6A

HF

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

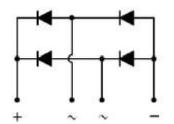
Application

- 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)	6 A		
I _{FSM}	150A		
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		6	А
	Without heatsink	I _{F(AV)}	1.9	
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 25 °C		150	_
	@ T _A = 125 °C	I _{FSM}	120	A
Peak Forward Surge Current : 1.0 ms Single Half Square -Wave Superimposed On Rated Load	@ T _A = 25 °C		230	А
	@ T _A = 125 °C	I _{FSM}	190	
I ² t rating for fusing (t = 8.3ms)	l ² t	93.37	A ² S	
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4$	CJ	42	pF	
	Reja	20	°C/W	
Typical Thermal Resistance (Note 1) (Rejl	12		
	R _{θJc}	9		
Operating junction and storage temper	T _J , T _{STG}	-55~150	°C	
Mounting torque @ Recommend torque	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 = 3 A, T _J = 25 °C	ı	ı	1.05	٧
Reverse Current	I _R	V _R = 1000 V, T _J = 25 °C	ı	ı	5	4
		V _R = 1000 V,T _J = 125 °C	-	-	100	uA

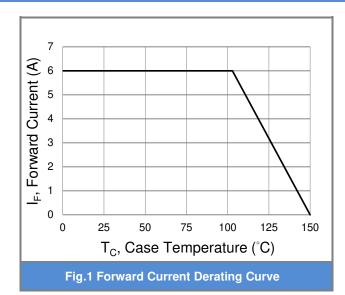
NOTES:

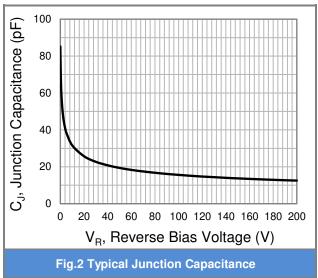
1. Device mounted on 10 cm * 9.4 cm * 2.6 cm Fin type heat sink

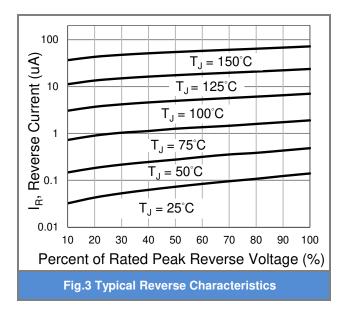
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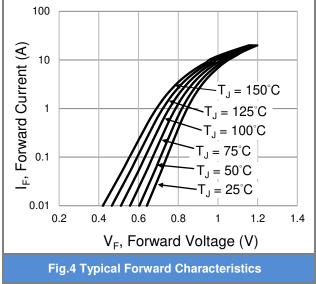


TYPICAL CHARACTERISTIC CURVES







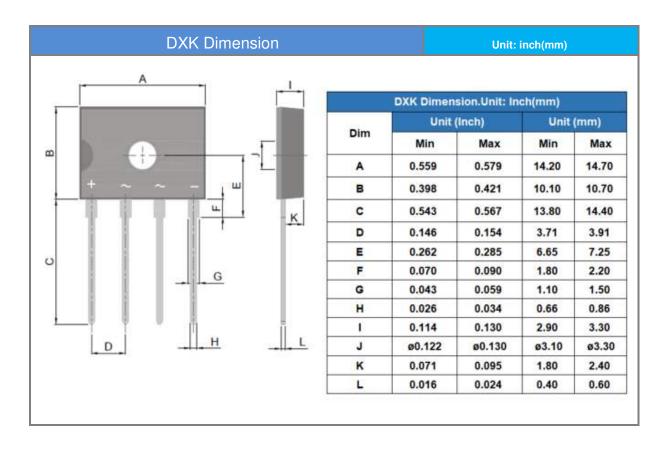




Part No. Marking Code Version

Approved Part No.	Package Type	Packing Type	Marking
DXK610	DXK	35pcs / Tube	DXK610

Packaging Information





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