



3.0A GLASS PASSIVATED SINGLE PHASE BRIDGE RECTIFIER



Features

- Compact Package 3.1mm Case Thickness
- Glass Passivated Die Construction
- Low Forward Voltage Drop
- High Forward Current Capability
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards

Mechanical Data

Case: D3K, Molded Plastic

Terminals: Plated Leads Solderable per

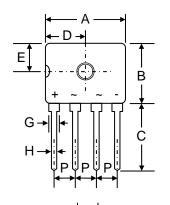
MIL-STD-202, Method 208 Polarity: As Marked on Body

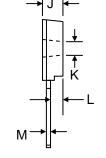
Weight: 1.5 grams (approx.)

Marking: Type Number

Mounting Position: AnyMounting Torque: 0.8 N.m Max.

Lead Free: For RoHS / Lead Free Version,
 Add "-LF" Suffix to Part Number, See Page 4





D3K							
Dim	Min	Max					
Α	13.30	14.30					
В	10.30	11.30					
С	13.10	13.50					
D	6.40	7.40					
E	4.50	6.10					
G	1.05	1.45					
Н	0.60	0.85					
J	2.60	3.60					
K	3.10	3.40					
L	2.00	2.20					
М	0.40	0.60					
Р	3.70	3.90					
All Dimensions in mm							

Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

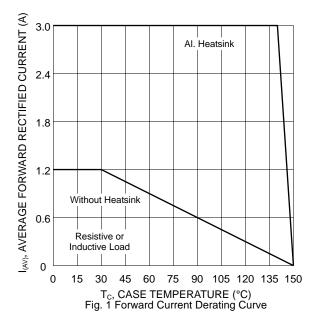
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

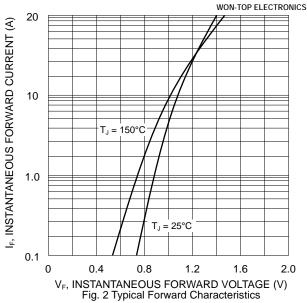
Characteristic	Symbol	D3KB 05	D3KB 10	D3KB 20	D3KB 40	D3KB 60	D3KB 80	D3KB 100	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		50	100	200	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1) $@T_C = 140^{\circ}C$ Average Rectified Output Current (Note 2) $@T_C = 30^{\circ}C$	lo	3.0 1.2						Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM	90						А	
I ² t Rating for Fusing (t < 8.3ms)	l ² t				35				A ² s
Forward Voltage per leg @I _F = 1.5A	VFM	1.05						V	
	IRM	10 500						μΑ	
Thermal Resistance Junction to Lead (Note 2) Thermal Resistance Junction to Case (Note 1)	R JL R JC	15 1.5						°C/W	
RMS Isolation Voltage Terminals to Case, t = 1 min	Viso	2000						٧	
Operating and Storage Temperature Range	Тл, Тѕтс			-{	55 to +15	50			°C

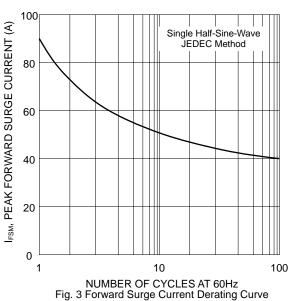
Note: 1. Mounted on FR-4 PCB with Al. heatsink.

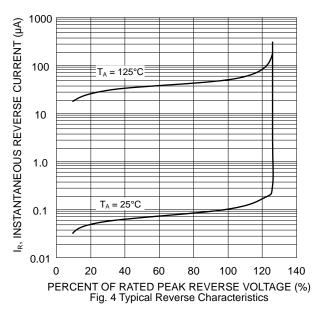
2. Mounted on FR-4 PCB without heatsink.

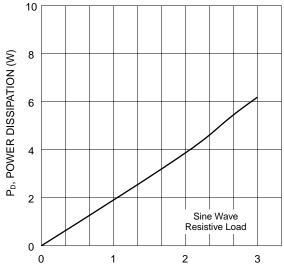






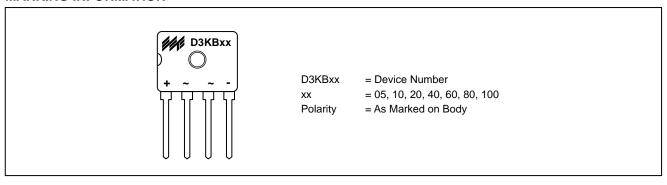








MARKING INFORMATION



PACKAGING INFORMATION

BULK

Tube Size L x W x H (mm)	Quantity (PCS)	Inner Box Size L x W x H (mm)	Quantity (PCS)	Carton Size L x W x H (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
365 x 29 x 6	25	382 x 152 x 94	1,500	390 x 312 x 200	6,000	23.0

Note: 1. Anti-static tube, water clear color.



ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
D3KB05	SIL Bridge	25 Units/Tube
D3KB10	SIL Bridge	25 Units/Tube
D3KB20	SIL Bridge	25 Units/Tube
D3KB40	SIL Bridge	25 Units/Tube
D3KB60	SIL Bridge	25 Units/Tube
D3KB80	SIL Bridge	25 Units/Tube
D3KB100	SIL Bridge	25 Units/Tube

- Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
- To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, D3KB05-LF.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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