

## 8.0A GLASS PASSIVATED BRIDGE RECTIFIER

**Reverse Voltage - 100 to 1000 V**

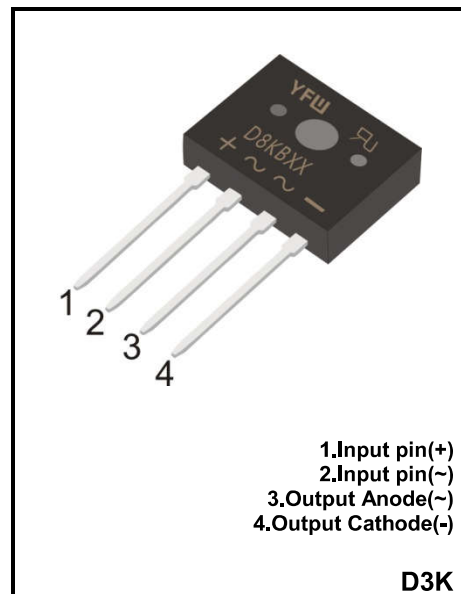
**Forward Current – 8.0A**

### FEATURES

- ◆High current capability
- ◆Low forward voltage drop
- ◆Glass Passivated Chip Junction
- ◆Low power loss, high efficiency
- ◆Lead free in comply with EU RoHS 2011/65/EU directives

### MECHANICAL DATA

- ◆Case: D3K
- ◆Terminals: Solderable per MIL-STD-202E, Method 208C
- ◆Case:UL-94 Class V-0 recognized Flame Retardant Epoxy



### Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Parameter	Symbols	D8KB1	D8KB2	D8KB4	D8KB6	D8KB8	D8KB10	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	100	200	400	600	800	1000	V
Maximum RMS voltage	$V_{RMS}$	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	100	200	400	600	800	1000	V
Average Rectified Output Current	$I_{(AV)}$	8						A
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC method)	$I_{FSM}$	170						A
Forward Voltage per element @ $I_F=6.0A$ DC	$V_F$	1.1						V
Maximum DC Reverse Current at @ $T_a=25^{\circ}C$ Rated DC Blocking Voltage @ $T_a=125^{\circ}C$	$I_R$	5.0 500						$\mu A$
$I^2t$ Rating for Fusing( $3ms \leq t \leq 8.3ms$ )	$I^2t$	120						$A^2s$
Typical junction capacitance (Note 1)	$C_J$	56						pF
Maximum Typical Thermal resistance	$R_{\theta JA}$	55						$^{\circ}C/W$
Operating and Storage Temperature Range	$T_J, T_{stg}$	$-55 \sim +150$						$^{\circ}C$

(1) Measured at 1 MHz and applied reverse voltage of 4 V D.C

**Ratings and Characteristic Curves**

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

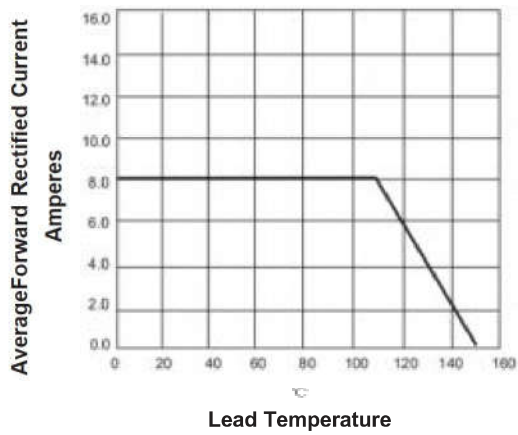


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

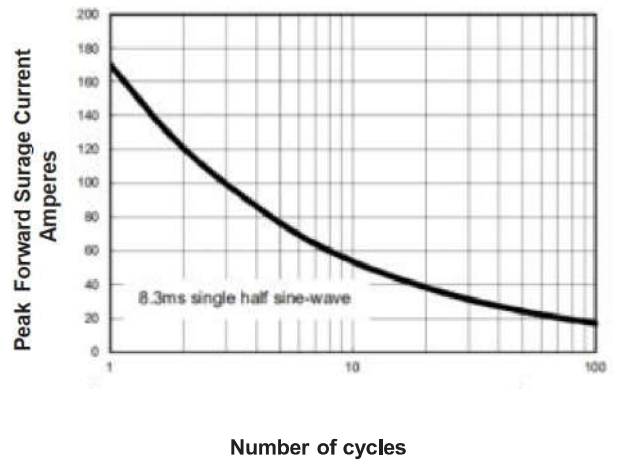


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

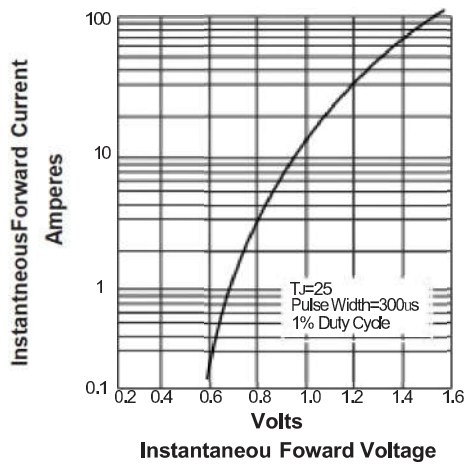
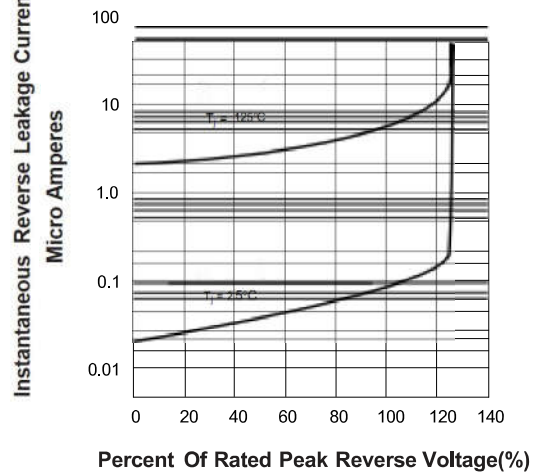
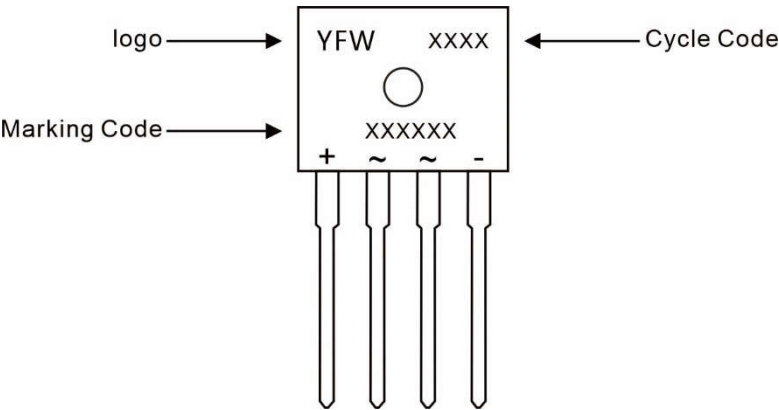


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



Marking Diagram



Ordering information

Package	Packing Description	Packing Quantity
D3K	bulk	500PCS/Box 5000PCS/Carton

Package Dimensions

D3K

Dim.	Millimeter(mm)		Dimensions inInch	
	Min.	Max.	Min.	Max.
A	13.5	14.5	0.53	0.57
B	10.0	11.0	0.39	0.43
C	1.8	2.4	0.07	0.09
D	12.8	14.8	0.50	0.58
E	3.76	3.86	0.15	0.15
F	0.65	0.85	0.03	0.03
G	1.2	1.4	0.05	0.06
H	5.0	5.5	0.20	0.22
I	3.05	3.45	0.12	0.14
J	3.1	3.6	0.12	0.14

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