

## 2.0A Super Fast Recovery Rectifier Bridge

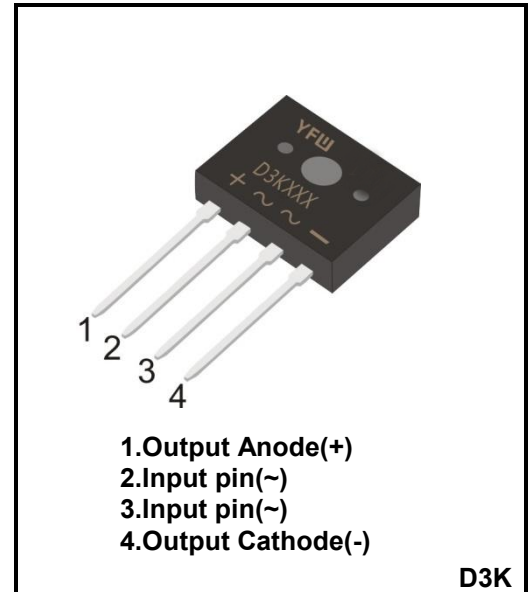
Reverse Voltage - 300 to 600 V  
Forward Current – 2.0A

### 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	D3K203SF	D3K206SF	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	300	600	V
Maximum RMS voltage	$V_{RMS}$	200	420	V
Maximum DC Blocking Voltage	$V_{DC}$	300	600	V
Average Rectified Output Current	$I_{(AV)}$	2.0		A
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC method)	$I_{FSM}$	60		A
Forward Voltage per element @ $I_F=2A$ DC	$V_F$	0.95	1.45	V
Maximum Reverse Recovery Time	$T_{rr}$	35		nS
Maximum DC Reverse Current at Rated DC Blocking Voltage	@ $T_a=25^{\circ}C$	5		$\mu A$
	@ $T_a=125^{\circ}C$	500		
$I^2t$ Rating for Fusing( $3ms \leq t \leq 8.3ms$ )	$I^2t$	17.5		$A^2S$
Typical Junction Capacitance	$C_j$	25		pF
Operating and Storage Temperature Range	$T_j, T_{stg}$	-55 ~ +175		$^{\circ}C$

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

(2) Device mounted on 50mm\*50mm\*1.6mm cu plate heatsink

**Ratings and Characteristic Curves**

FIG.1-DERATING CURVE OUTPUT RECTIFIED CURRENT

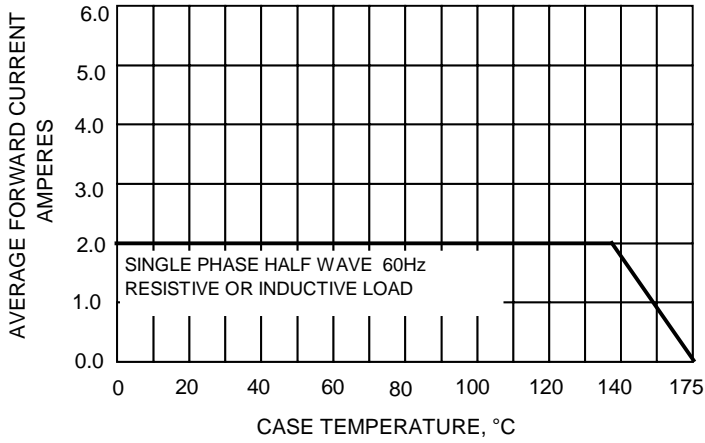


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

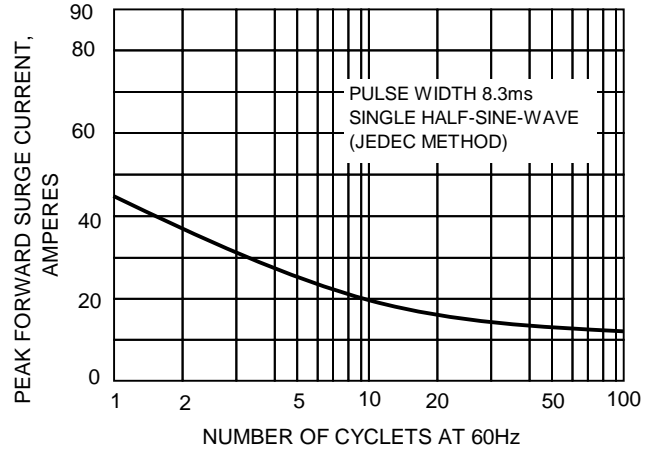


FIG.3-TYPICAL FORWARD CHARACTERISTICS

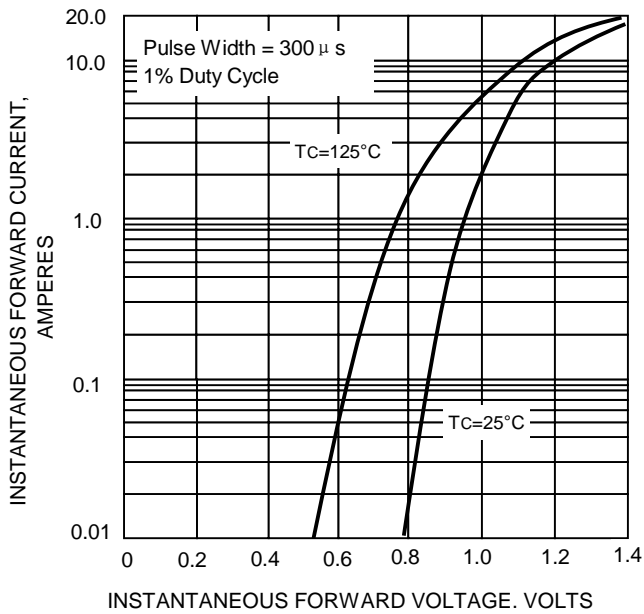
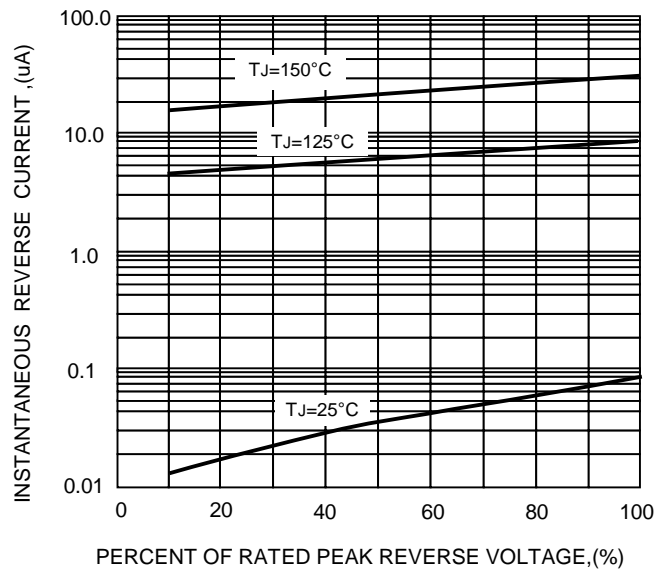
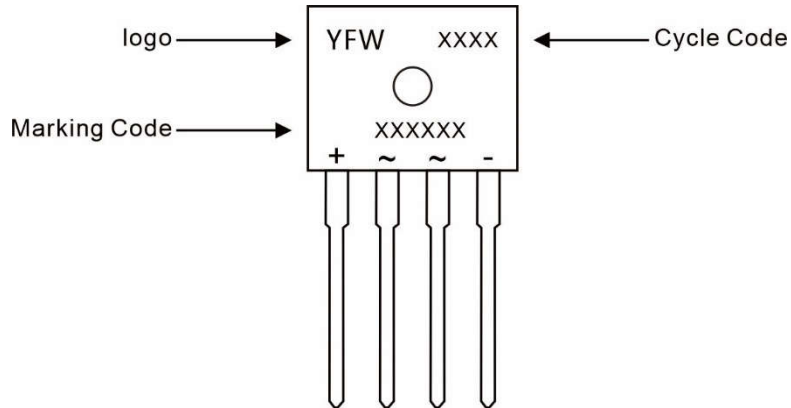


FIG.5-TYPICAL REVERSE CHARACTERISTICS



**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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