

2.0A Super Fast Recovery Rectifier Bridge

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

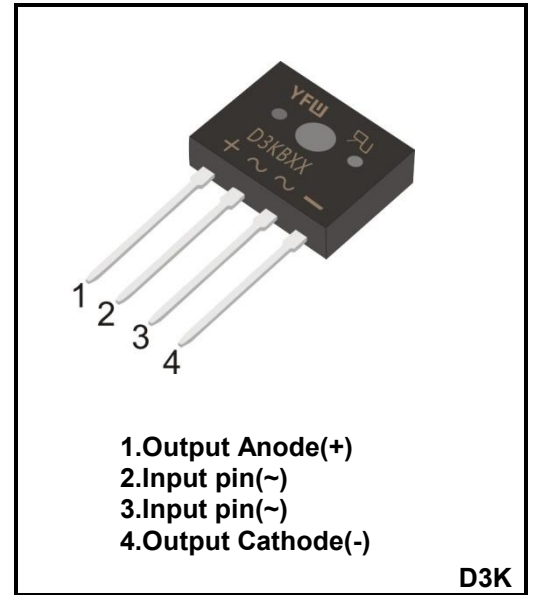
FEATURES

- ◆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		μA
	@ $T_a=125^{\circ}C$	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

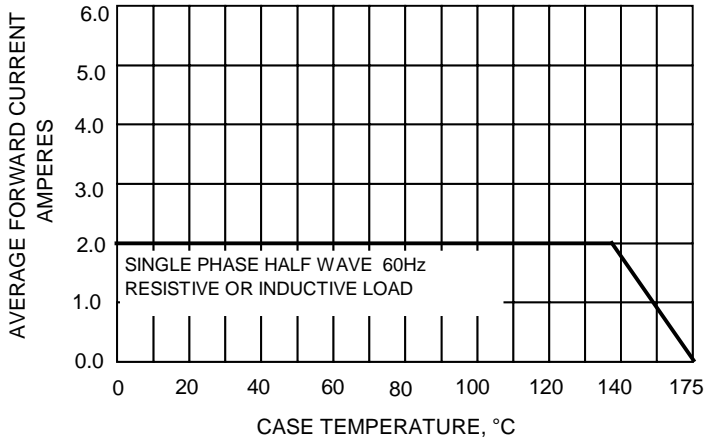


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

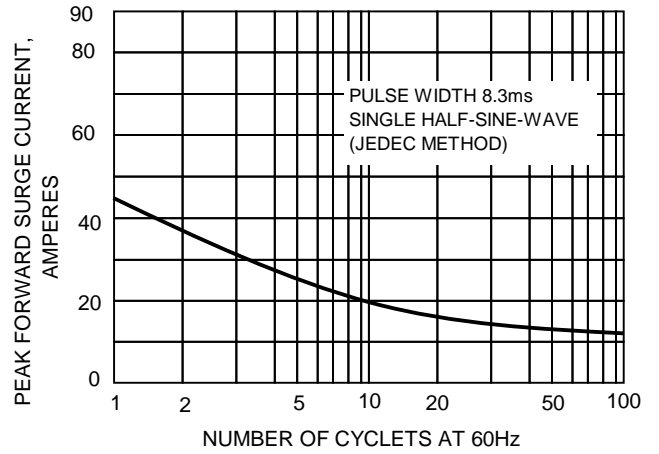


FIG.3-TYPICAL FORWARD CHARACTERISTICS

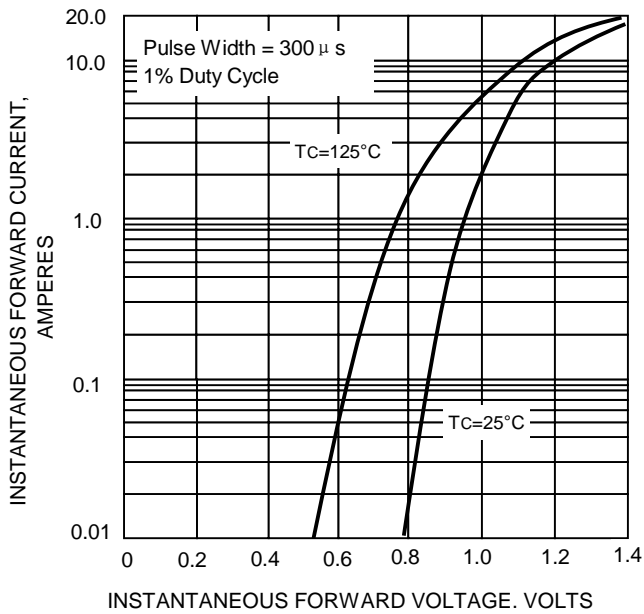
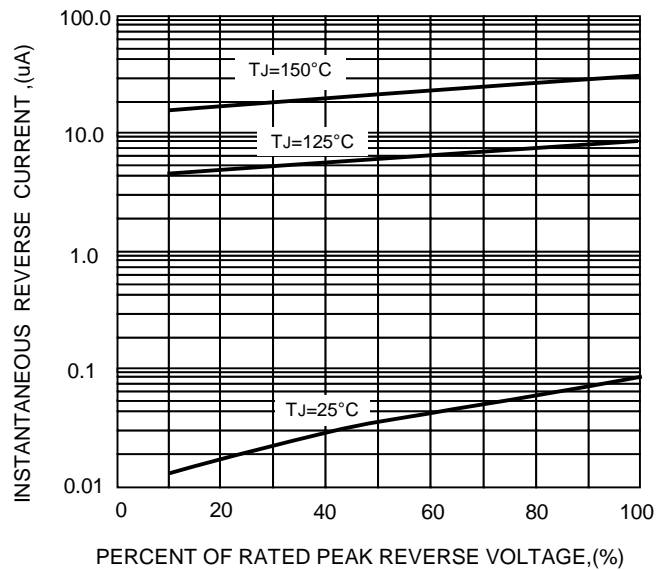
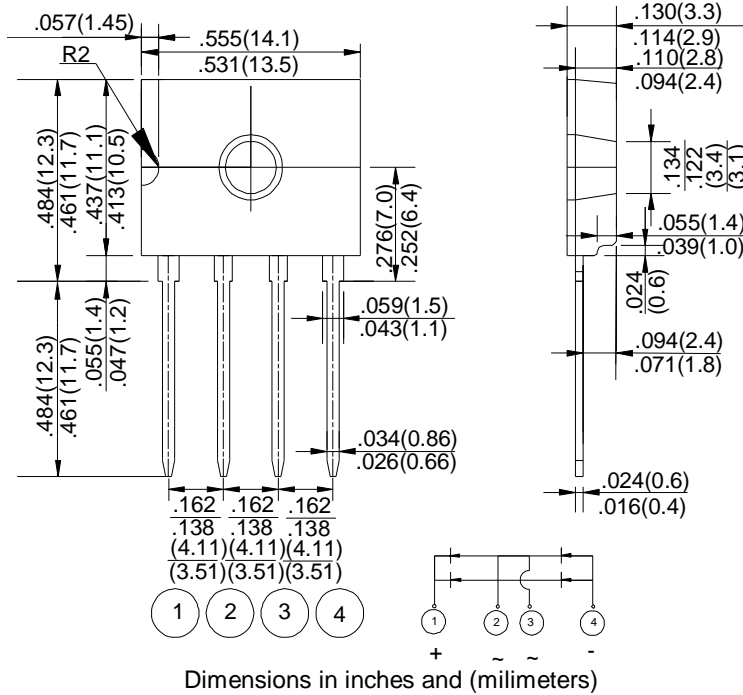


FIG.5-TYPICAL REVERSE CHARACTERISTICS



Package Outline

D3K



Summary of Packing Options

Package	Packing Description	Packing Quantity	Industry Standard
D3K	BOX	500	EIA-481-1