4.0A GLASS PASSIVATED BRIDGE RECTIFIER

Reverse Voltage - 100 to 1000 V

Forward Current – 4.0A

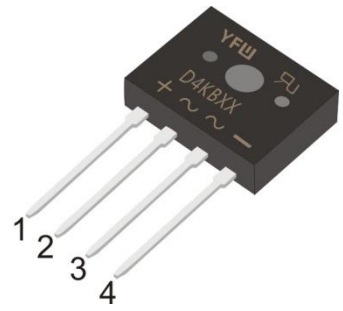
lead-free ROHS

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 Flane Retardant Epoxy



1.Input pin(+)
2.Input pin(~)
3.Output Anode(~)
4.Output Cathode(-)

D3K

Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Parameter	Symbols	D4KB1	D4KB2	D4KB4	D4KB6	D4KB8	D4KB10	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	$I_{(AV)}$	4						A
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	135						A
Forward Voltage per element @I_F =2A DC	V_F	1.1						V
Maximum DC Reverse Current @Ta=25°C at Rated DC Blocking Voltage @Ta=125°C	I_R	10 500						μA
I2t Rating for Fusing(3ms≤t≤8.3ms)	I^2t	64.84						A^2S
Maximum Typical Thermal Resistance wwithout heatsink wwith heatsink wwithout heatsink	$R_{\theta JA}$ $R_{\theta JC}$ $R_{\theta JL}$	55 1.5 15						°C/W
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +150						°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.

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FIG.1-DERATING CURVE OUTPUT
RECTIFIED CURRENT

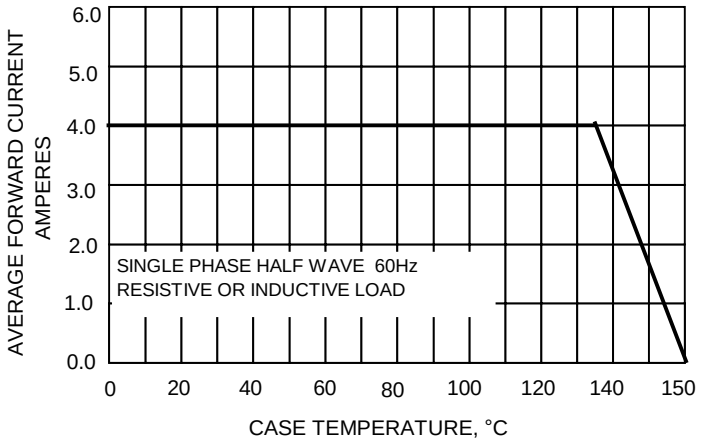


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

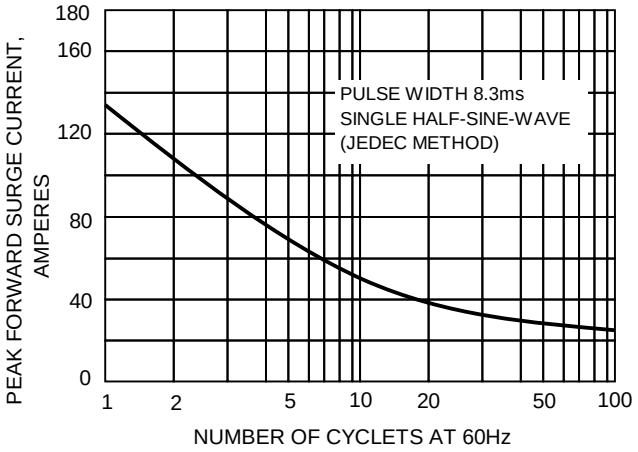


FIG.3-TYPICAL JUNCTION CAPACITANCE

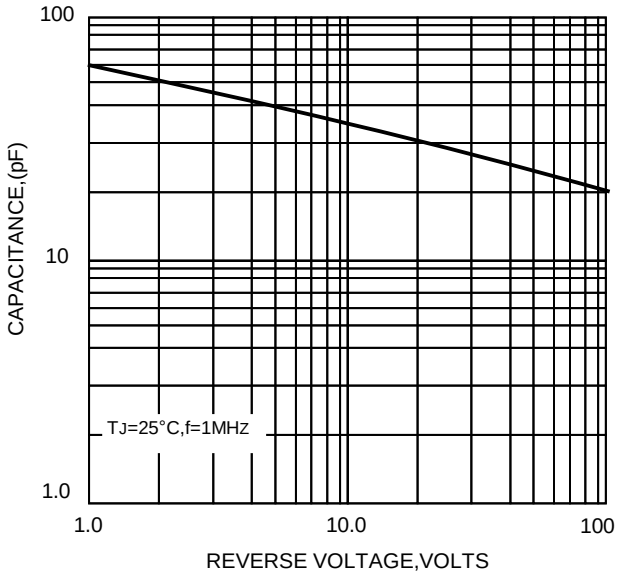


FIG.3-TYPICAL FORWARD CHARACTERISTICS

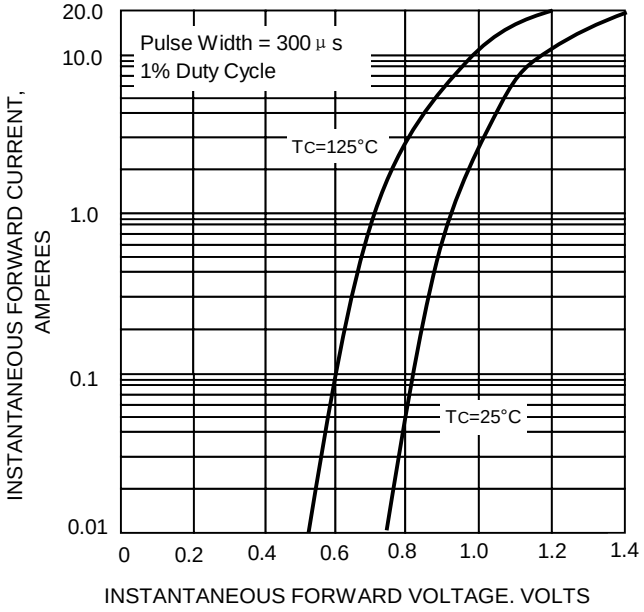
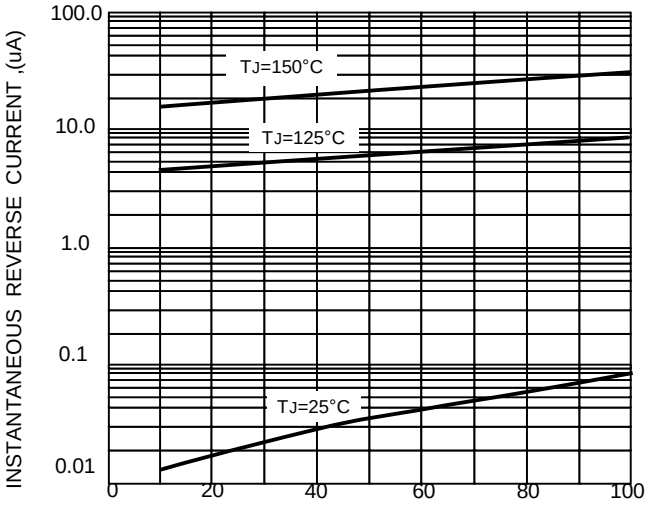
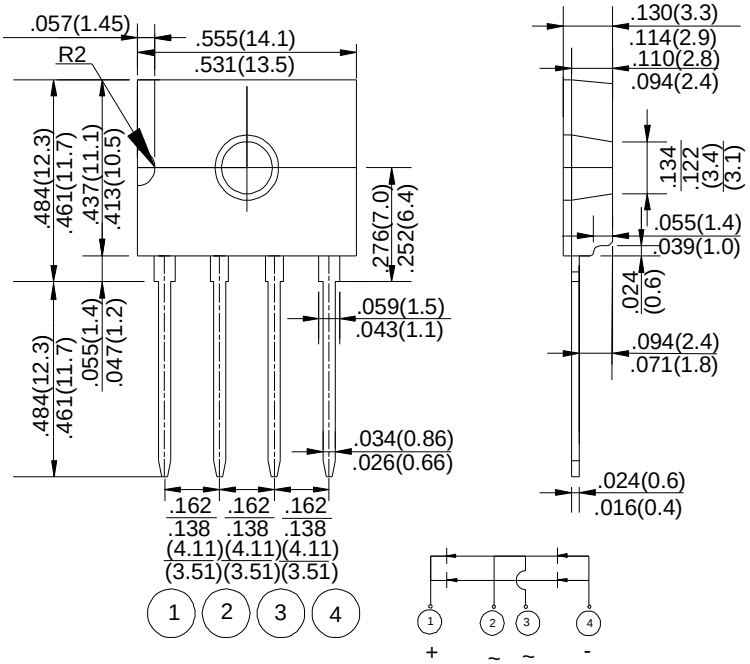


FIG.5-TYPICAL REVERSE CHARACTERISTICS



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Package Outline D3K



Dimensions in inches and (milimeters)

Summary of Packing Options

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

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