

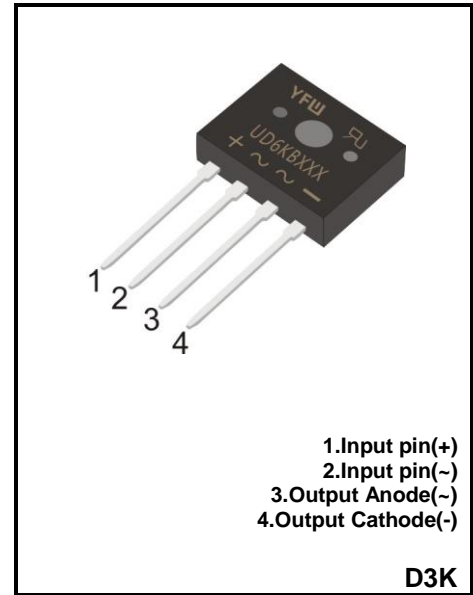
**6.0A GLASS PASSIVATED BRIDGE RECTIFIER**

**Reverse Voltage - 100 to 1000 V**

**Forward Current – 6.0A**

**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



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

**D3K**

**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	UD6KB10	UD6KB20	UD6KB40	UD6KB60	UD6KB80	UD6KB100	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	$I_{(AV)}$	6						A
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC method)	$I_{FSM}$	165						A
Forward Voltage per element @ $I_F = 3.0A$ DC	$V_F$	1.0						V
Maximum DC Reverse Current @ $T_a = 25^\circ C$ at Rated DC Blocking Voltage @ $T_a = 125^\circ C$	$I_R$	10 500						$\mu A$
I2t Rating for Fusing(3ms≤t≤8.3ms)	$I^2t$	93						A <sup>2</sup> S
Maximum Typical Thermal Resistance	$R_{\theta JA}$ $R_{\theta JC}$ $R_{\theta JL}$	55 1.5 15						$^\circ C/W$
Operating and Storage Temperature Range	$T_j, T_{stg}$	-55 ~ +150						$^\circ C$

(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.

FIG.1-DERATING CURVE OUTPUT RECTIFIED CURRENT

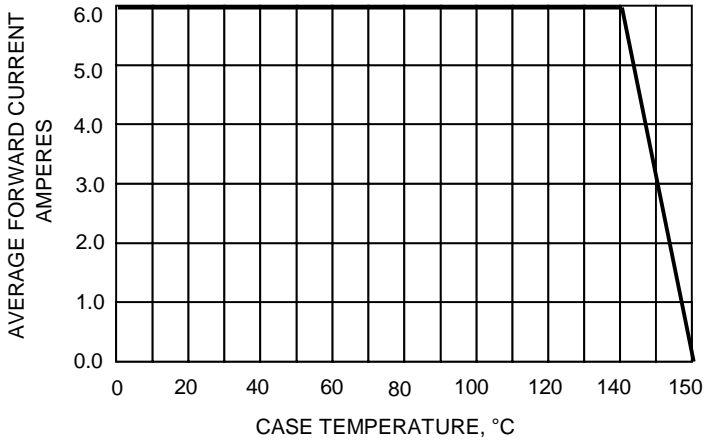


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

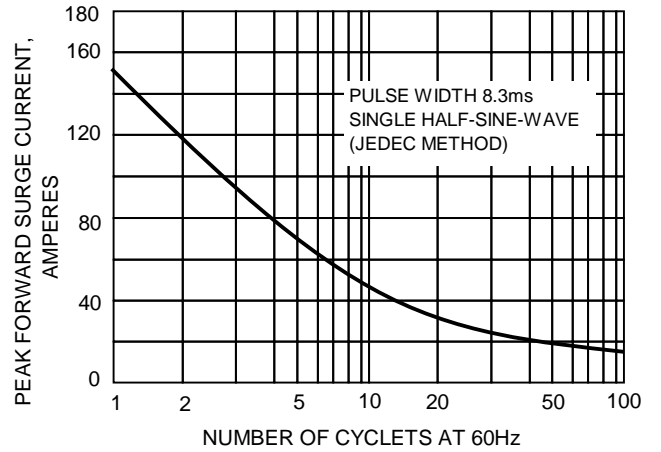


FIG.3-TYPICAL FORWARD CHARACTERISTICS

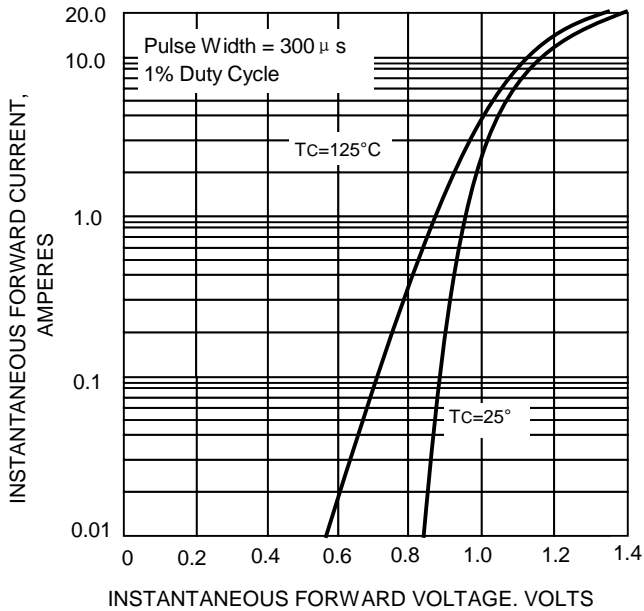
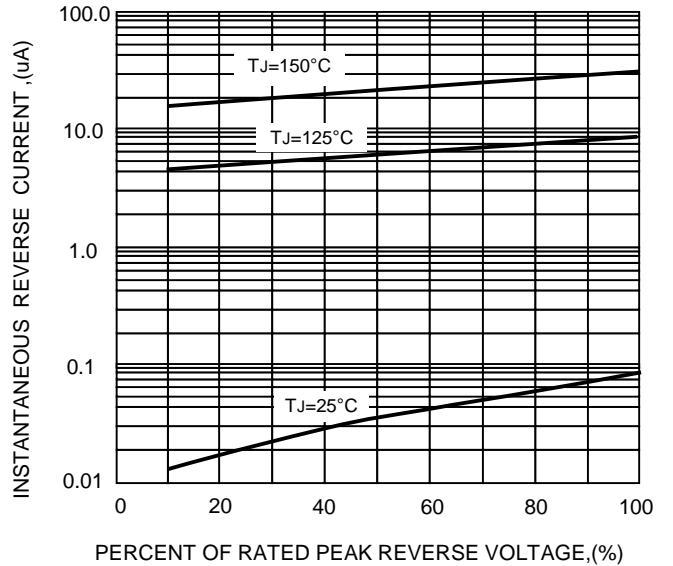
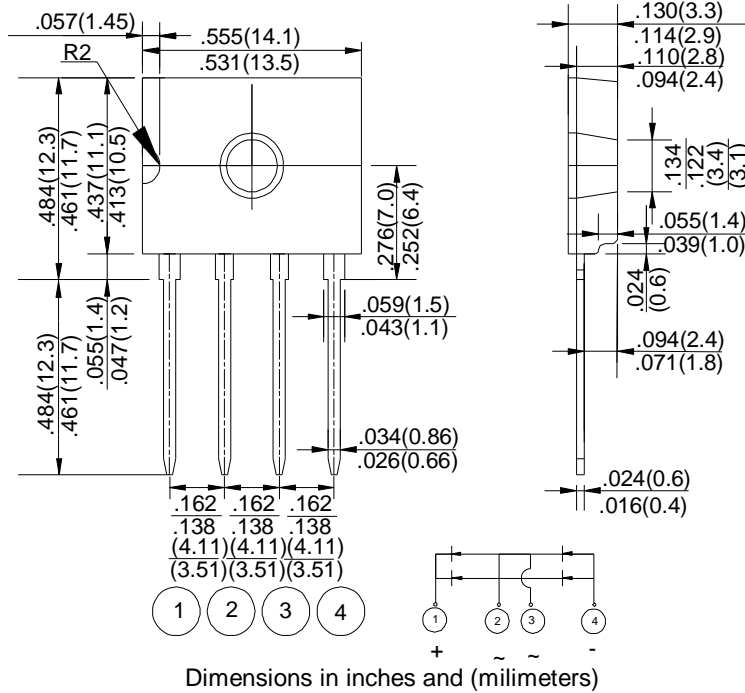


FIG.5-TYPICAL REVERSE CHARACTERISTICS



**Package Outline**

**D3K**



**Summary of Packing Options**

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