



# D3K6005 THRU D3K610

BRIDGE RECTIFIERS GLASS PASSIVATED

REVERSE VOLTAGE - 50 to 1000Volts

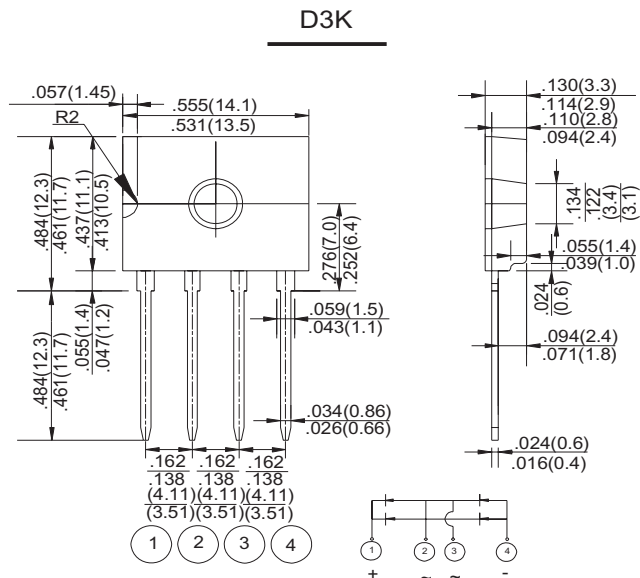
FORWARD CURRENT - 6.0 Amperes

## FEATURES

- Glass passivated chip junction
- High case dielectric strength
- High surge current capability
- Ideal for printed circuit board

## MACHANICAL DATA

- Terminal:Plated leads solderable per MIL-STD 202E, Method 208C
- Case:UL-94 Class V-0 recognized Flame Retardant Epoxy
- Polarity:Polarity symbol marked on body
- Mounting position:any



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	D3K	D3K	D3K	D3K	D3K	D3K	D3K	UNIT
		6005	601	602	604	606	608	610	
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Output Current @ T <sub>c</sub> =90°C (with heatsink) @ T <sub>c</sub> =90°C (without heatsink)	I <sub(av)< sub=""></sub(av)<>	6.0 3.0							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	150							A
Maximum Forward Voltage at 6.0A DC	V <sub>F</sub>	1.1							V
I <sup>2</sup> t Rating for Fusing (t<8.3ms)	I <sup>2</sup> t	93.375							A <sup>2</sup> s
Maximum Typical Thermal Resistance	R <sub>θJA</sub> R <sub>θJL</sub>	55 15							°C/W
Maximum DC Reverse Current @ T <sub>a</sub> =25°C at Rated DC Blocking Voltage @ T <sub>a</sub> =125°C	I <sub>R</sub>	10 500							μA
Operating Temperature Range	T <sub>J</sub>	-55 to +150							°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150							°C

RATING AND CHARACTERISTIC CURVES D3K6005 THRU D3K610

FIG.1-DERATING CURVE OUTPUT RECTIFIED CURRENT

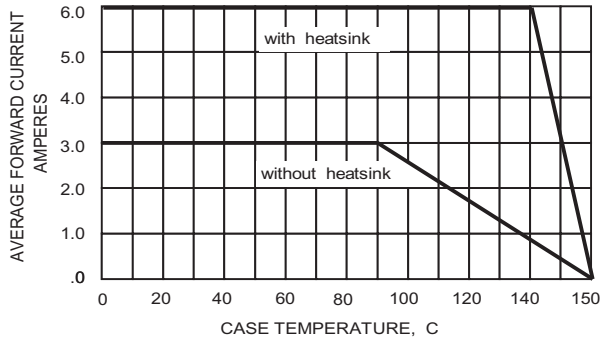


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

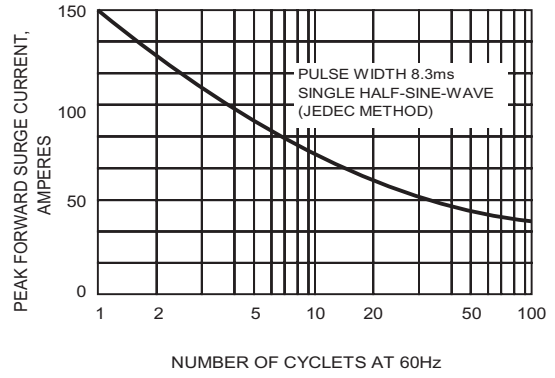


FIG.3-TYPICAL FORWARD CHARACTERISTICS

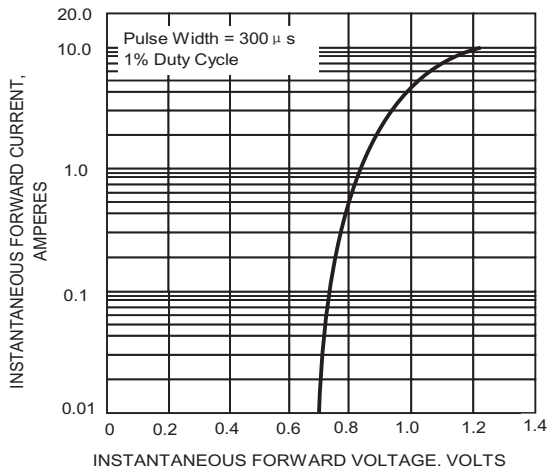


FIG.5-TYPICAL REVERSE CHARACTERISTICS

