

## GLASS PASSIVATED BRIDGE RECTIFIERS

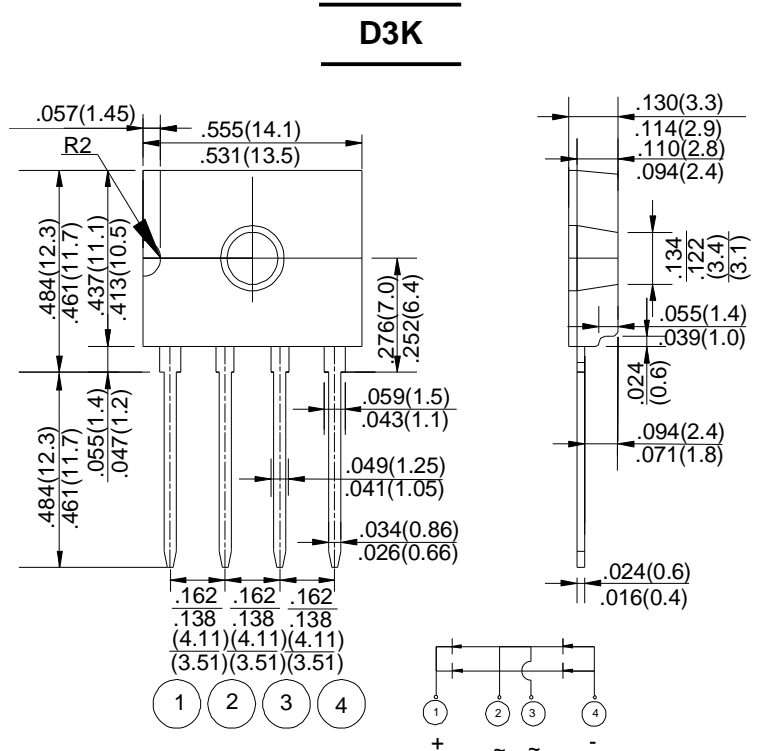
REVERSE VOLTAGE - 50 to 1000Volts  
FORWARD CURRENT - 4.0 Amperes

### 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



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

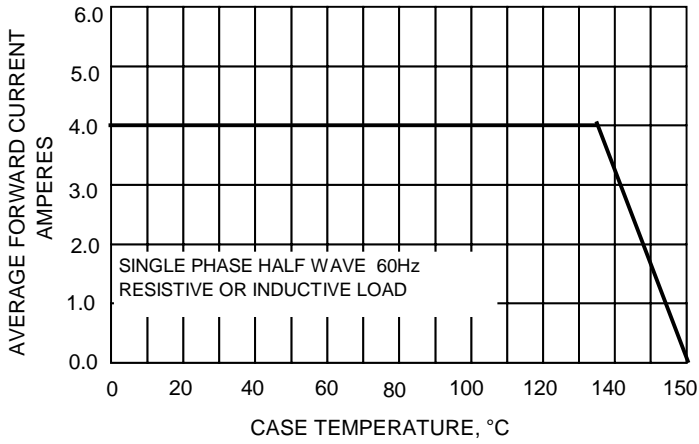
Rating at 25°C ambient temperature unless otherwise specified.

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

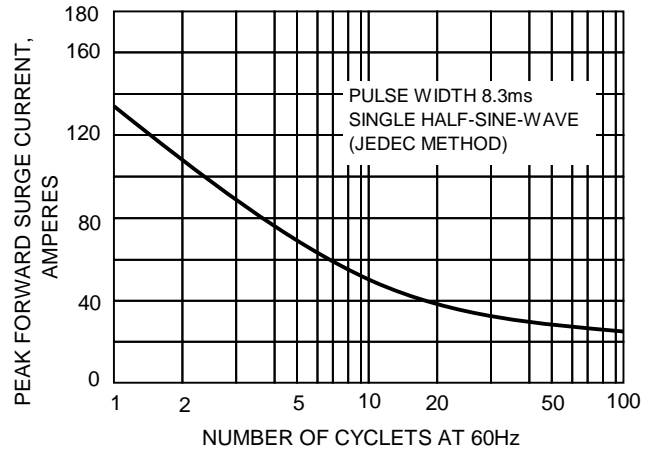
For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	D4KB05	D4KB1	D4KB2	D4KB4	D4KB6	D4KB8	D4KB10	UNIT	
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> =138°C (with heatsink)	I <sub(av)< sub=""></sub(av)<>	4								A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	135								A
Maximum Forward Voltage at 4.0A DC	V <sub>F</sub>	1.1								V
I <sup>2</sup> t Rating for Fusing (t<8.3ms)	I <sup>2</sup> t	64.84								A <sup>2</sup> s
Typical Thermal Resistance	without heatsink	R <sub>θJa</sub>								
	with heatsink	R <sub>θJc</sub>								°C/W
	without heatsink	R <sub>θJL</sub>								15
Maximum DC Reverse Current at Rated DC Blocking Voltage	@ T <sub>a</sub> =25°C	I <sub>R</sub>								10.0
	@ T <sub>a</sub> =125°C									500
Operating Temperature Range	T <sub>J</sub>	-55 to +150								°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150								°C

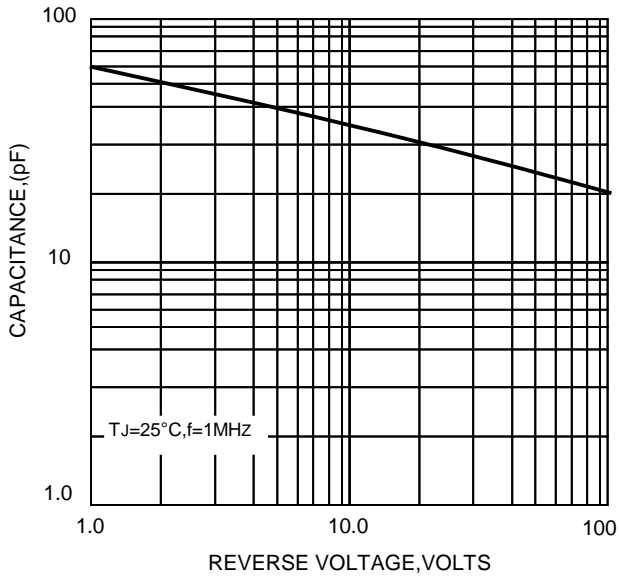
**FIG.1-DERATING CURVE OUTPUT RECTIFIED CURRENT**



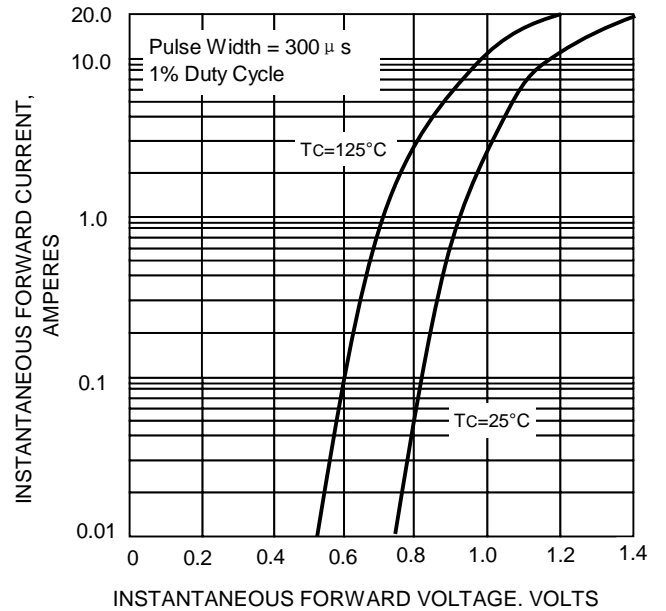
**FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT**



**FIG.3-TYPICAL JUNCTION CAPACITANCE**



**FIG.3-TYPICAL FORWARD CHARACTERISTICS**



**FIG.5-TYPICAL REVERSE CHARACTERISTICS**

