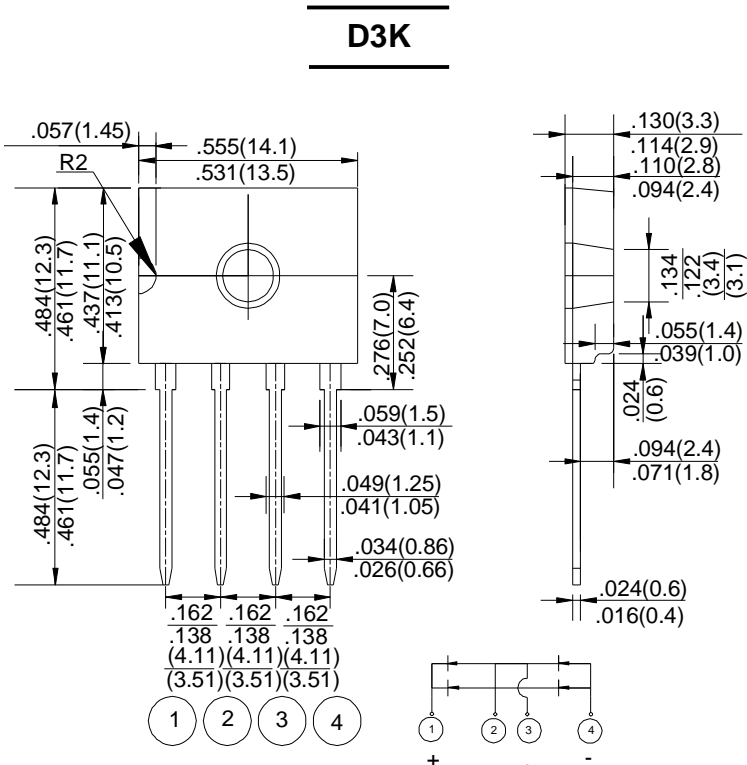


<b>GLASS PASSIVATED BRIDGE RECTIFIERS</b>	<p>REVERSE VOLTAGE - 50 to 1000Volts FORWARD CURRENT - 3.0 Amperes</p>
<p><b>FEATURES</b></p> <ul style="list-style-type: none"> <li>● Glass passivated chip junction</li> <li>● High case dielectric strength</li> <li>● High surge current capability</li> </ul> <p style="padding-left: 20px;">Ideal for printed circuit board</p> <p><b>MACHANICAL DATA</b></p> <ul style="list-style-type: none"> <li>● Terminal:Plated leads solderable per MIL-STD 202E, Method 208C</li> <li>● Case:UL-94 Class V-0 recognized Flame Retardant Epoxy</li> <li>● Polarity:Polarity symbol marked on body</li> <li>● Mounting position:any</li> </ul>	<p><b>D3K</b></p>  <p>Dimensions in inches and (millimeters)</p>

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

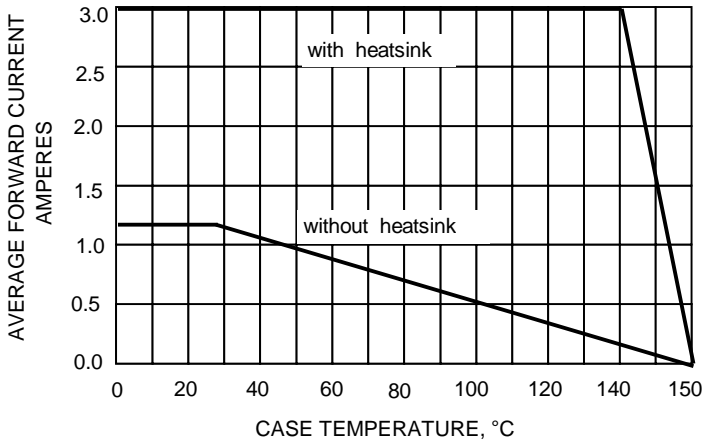
Rating at 25°C ambient temperature unless otherwise specified.

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

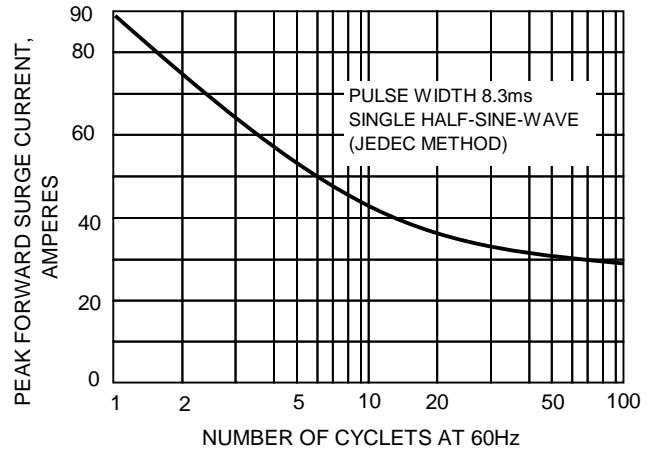
For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	D3KB05	D3KB1	D3KB2	D3KB4	D3KB6	D3KB8	D3KB10	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> =140°C (with heatsink) @ T <sub>a</sub> =29°C (without heatsink)	I <sub>(AV)</sub>	3 1.2								A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	90								A
Maximum Forward Voltage at 1.5A DC	V <sub>F</sub>	1.05								V
I <sup>2</sup> t Rating for Fusing (t<8.3ms)	I <sup>2</sup> t	35								A <sup>2</sup> s
Maximum Typical Thermal Resistance	without heatsink	R <sub>θJa</sub>								55
	with heatsink	R <sub>θJc</sub>								1.5
	without heatsink	R <sub>θJL</sub>								15
Maximum DC Reverse Current at Rated DC Blocking Voltage	I <sub>R</sub>	10.0 500								μA
Operating Temperature Range	T <sub>J</sub>	-55 to +150								°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150								°C

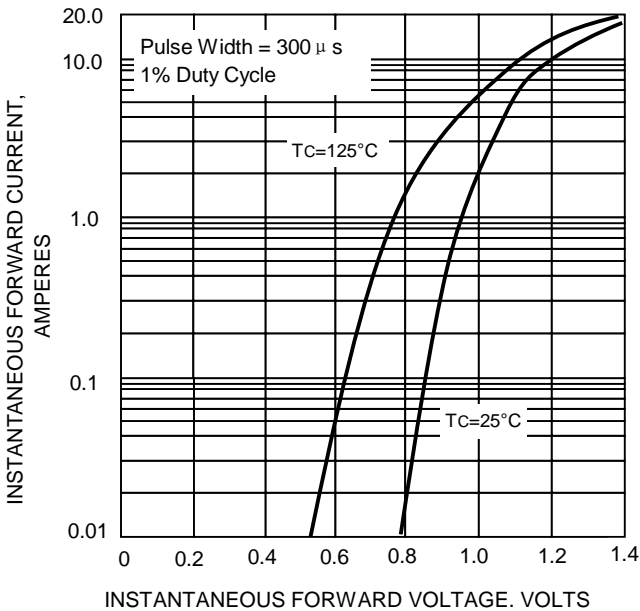
**FIG.1-DERATING CURVE OUTPUT RECTIFIED CURRENT**



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



**FIG.3-TYPICAL FORWARD CHARACTERISTICS**



**FIG.5-TYPICAL REVERSE CHARACTERISTICS**

