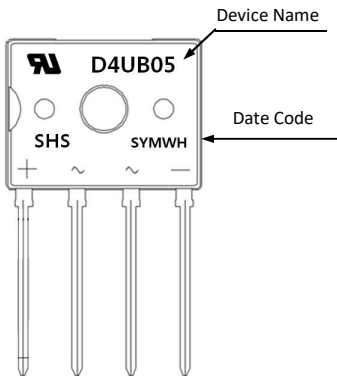


**Glass Passivated Bridge Rectifiers**  
**Reverse Voltage 50 to 1000 Volts Forward Current 4.0 Amperes**

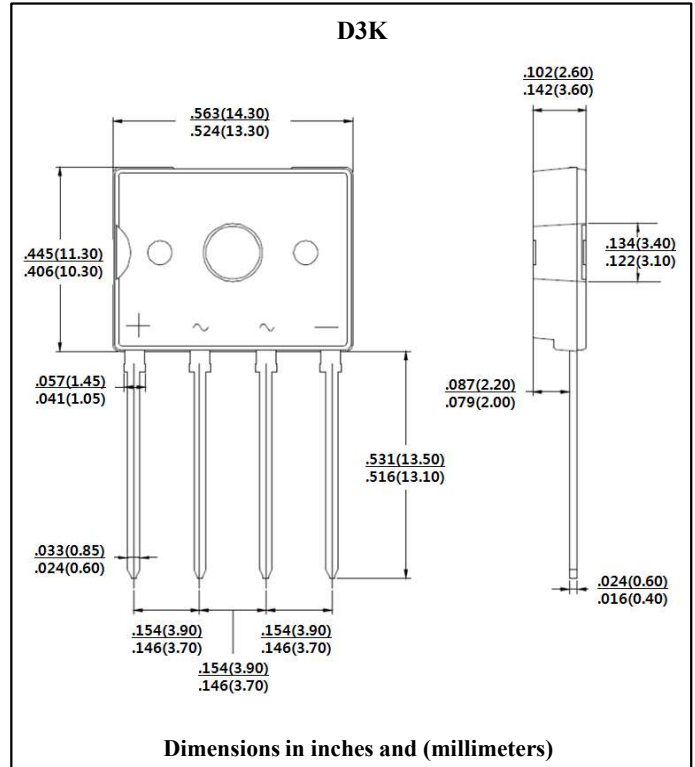
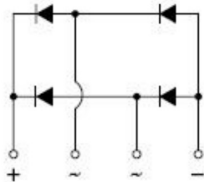
**Features**

- Glass passivated junction
- Superior thermal chip junctions
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- High current capacity with small package

**Marking**



**Equivalent Circuit**



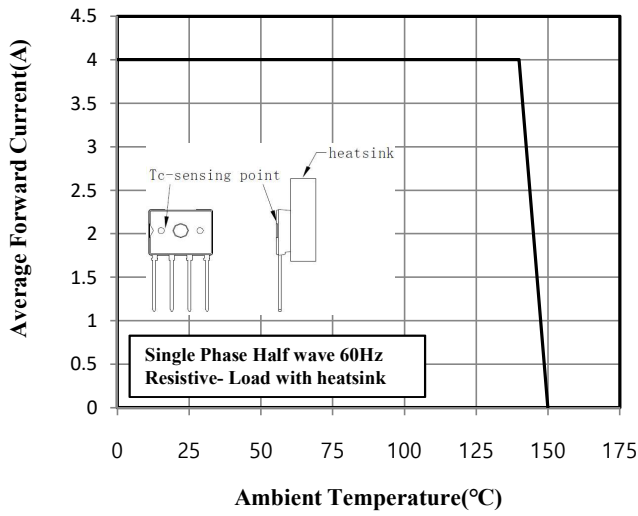
**Maximum Ratings & Electrical Characteristics**

Ratings at 25°C ambient temperature unless otherwise specified  
Single phase half wave 60 Hz, resistive or inductive load  
For capacitive load, derate current by 20%

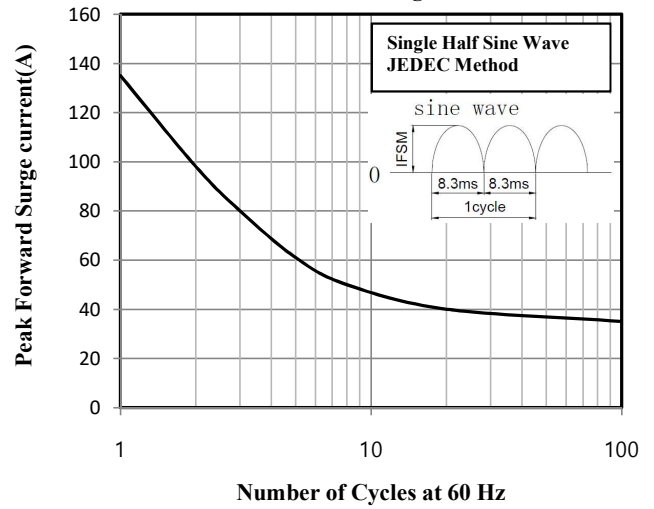
Parameter	Symbol	D4U B05	D4U B10	D4U B20	D4U B40	D4U B60	D4U B80	D4U B100	Unit	Remark
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V	
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V	
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V	
Average Rectified Output Current (60Hz Sine Wave, R-load)	$I_O$	1.3 (Without heatsink $T_a=29^\circ\text{C}$ )							A	
		4.0 (With heatsink $T_c=140^\circ\text{C}$ )							A	
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	$I_{FSM}$	135							A	
Maximum Instantaneous Forward Voltage @ 4.0A	$V_F$	1.1							V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$	10.0							uA	$T_a=25^\circ\text{C}$
Dielectric Strength	$V_{dis}$	2							KV	
Rating For Fusing ( $t < 8.3\text{ms}$ )	$I^2t$	75							$\text{A}^2\text{S}$	
Mounting Torque	$T_{or}$	8							$\text{kg}\cdot\text{cm}$	
Typical Thermal Resistance	$R_{th(j-c)}$	1.5							$^\circ\text{C}/\text{W}$	
	$R_{th(j-a)}$	55								
Operating Temperature Range	$T_J$	-55 to +150							$^\circ\text{C}$	
Storage Temperature Range	$T_{STG}$	-55 to +150							$^\circ\text{C}$	

Ratings and Characteristics Curves (Ta=25°C unless otherwise noted)

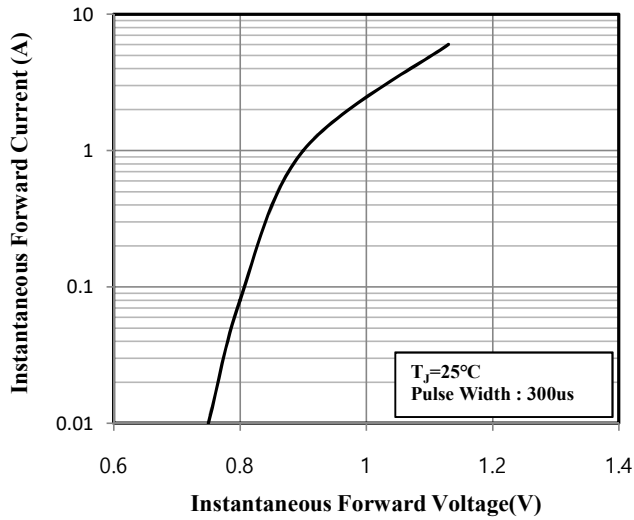
**Fig.1 Forward Current Derating Curve**



**Fig.2 Maximum Non-Repetitive Peak Forward Surge Current Per Bridge Element**



**Fig.3 Typical Instantaneous Forward Characteristics Per Bridge Element**



**Fig.4 Typical Reverse Characteristics**

