

RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

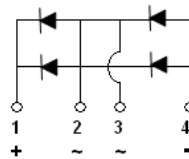
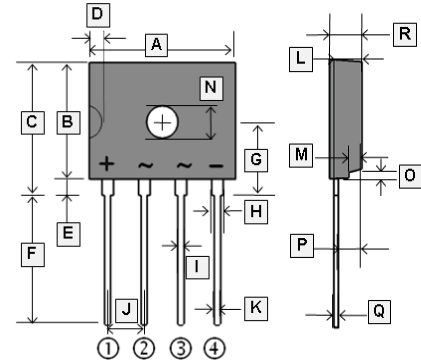
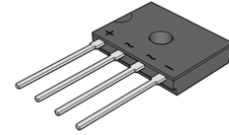
## FEATURES

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

## MECHANICAL DATA

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

**D3K**



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	13.5	14.1	J	3.51	4.11
B	10.5	11.1	K	0.66	0.86
C	11.7	12.3	L	2.4	2.8
D	1.45 TYP.		M	1.0	1.4
E	1.2	1.4	N	3.1	3.4
F	11.7	12.3	O	0.6 TYP.	
G	6.4	7.0	P	1.8	2.4
H	1.1	1.5	Q	0.4	0.6
I	1.05	1.25	R	2.9	3.3

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, de-rate current by 20%.)

Parameter	Symbol	Part Number							Unit
		D4K B05	D4K B1	D4K B2	D4K B4	D4K B6	D4K B8	D4K B10	
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @ $T_A=138^\circ\text{C}$ (with heatsink)	$I_{(AV)}$	4.0							A
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	$I_{FSM}$	125							A
Maximum Forward Voltage Drop Per Bridge Element at 4.0A Peak	$V_F$	1.1							V
$I^2t$ Rating for Fusing ( $t < 8.3\text{ms}$ )	$I^2t$	64.84							$\text{A}^2\text{s}$
Maximum Reverse Current at Rated DC Blocking Voltage per Element	$T_A=25^\circ\text{C}$	10							$\mu\text{A}$
	$T_A=125^\circ\text{C}$	500							$\mu\text{A}$
Typical Thermal Resistance	$R_{\theta JA}$	55							$^\circ\text{C} / \text{W}$
	$R_{\theta JC}$	1.5							
	$R_{\theta JL}$	15							
Operating and Storage temperature range	$T_J, T_{STG}$	-55~150							$^\circ\text{C}$

**RATINGS AND CHARACTERISTIC CURVES**

FIG.1-DERATING CURVE OUTPUT RECTIFIED CURRENT

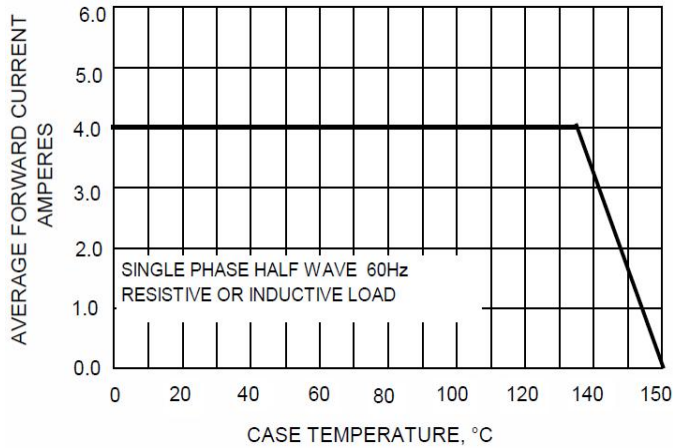


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

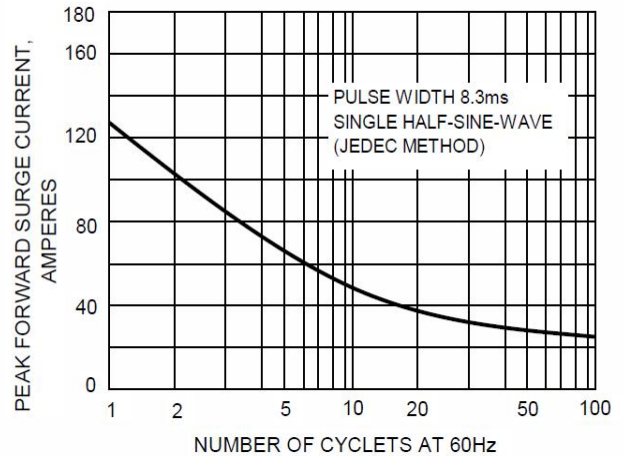


FIG.3-TYPICAL JUNCTION CAPACITANCE

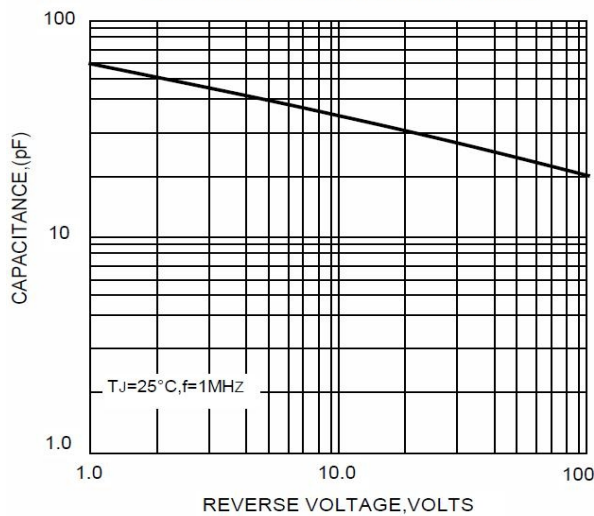


FIG.4-TYPICAL FORWARD CHARACTERISTICS

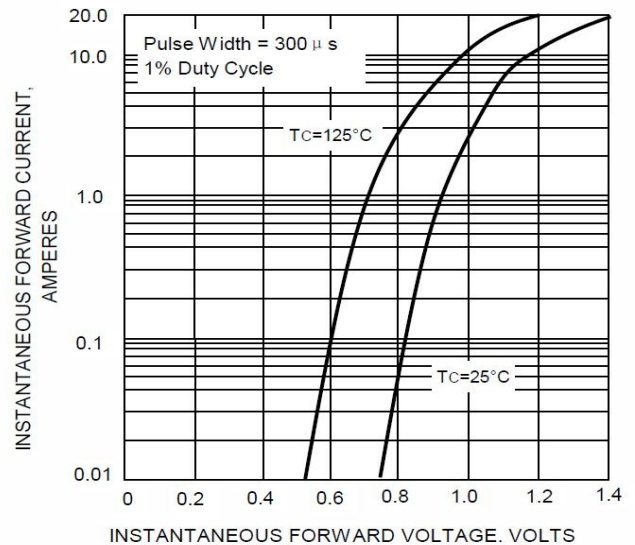


FIG.5-TYPICAL REVERSE CHARACTERISTICS

