

FEATURES

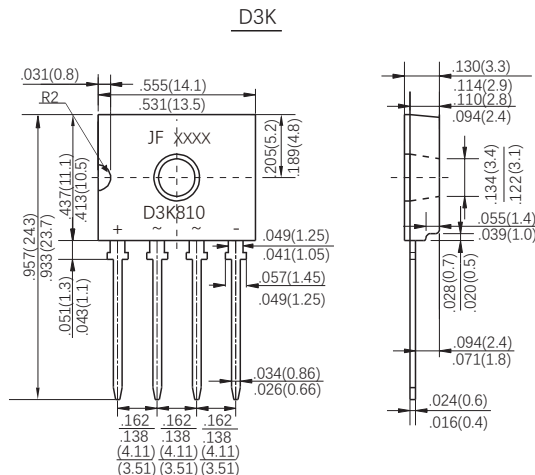
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated chip junction
- High current capability
- Low forward voltage drop
- High temperature soldering guaranteed:260°C/10 seconds at terminals
- Component in accordance to RoHS 2015/863/EU

MECHANICAL DATA

- Case: D3K molded plastic body
- Terminals:Plated leads solderable per MIL-STD-750,method 2026
- Mounting Position: Any

TYPICAL APPLICATIONS

Used in AC/DC bridge full wave rectification for SMPS, lighting ballaster, adapter, charger, home appliances, office equipment, and telecommunication applications.



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, resistive or inductive load. For capacitive load, derate current by 20%.)

Parameters	Symbol	D3K8005	D3K801	D3K802	D3K804	D3K806	D3K808	D3K810	Units
Maximum Reverse Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current	$I_{F(AV)}$	8.0							Amps
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated Load	I_{FSM}	150							Amps
Rating for Fusing (t = 8.3ms)	I^2t	93.4							A ² s
Maximum Instantaneous Forward Voltage at IF=8.0ADC	V_F	1.1							Volts
Maximum DC Reverse Current at rated DC blocking voltage	$T_F=25^{\circ}C$	5.0							μA
	$T_F=125^{\circ}C$	500							μA
Typical Thermal Resistance Junction to Ambient (Note2)	$R_{\theta JA}$	55							$^{\circ}C/W$
	Junction to Case $R_{\theta JC}$	1.5							
Typical Junction capacitance (Note 1)	C_j	56							pF
Operating and Storage Temperature Range	T_j, T_{STG}	-55to+150							$^{\circ}C$

NOTE: 1.Measured at 1MHZ and applied reverse voltage of 4.0 Volts D.C.

2.Device mounted on FR-4 PCB with 75mm x 45mm x 5.5mm aluminum heatsink.

FIG.1-MAXIMUM FORWARD SURGE CURRENT

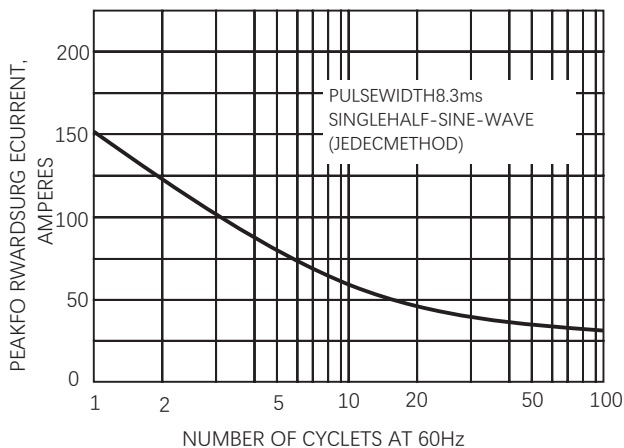


FIG.2 FORWARD CURRENT DERATING CURVE

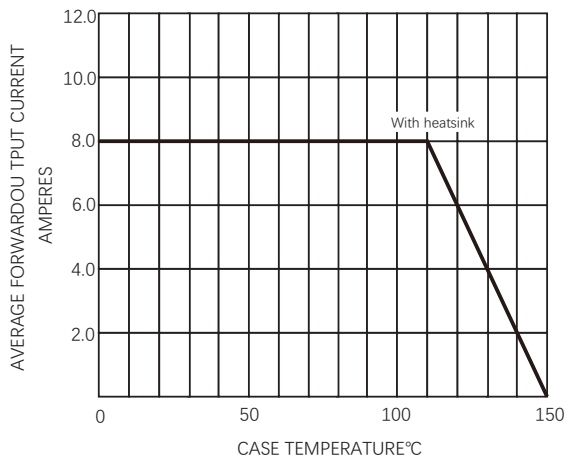


FIG. 3-TYPICAL FORWARD CHARACTERISTICS

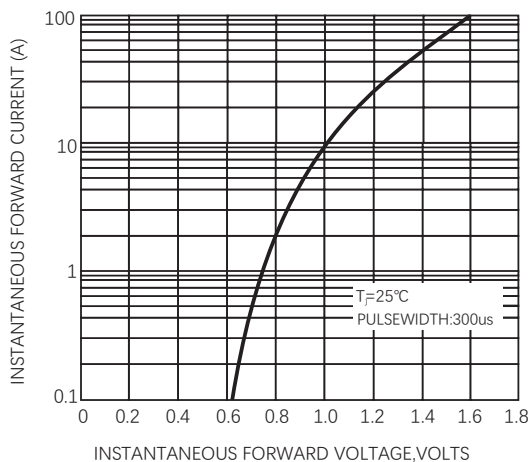
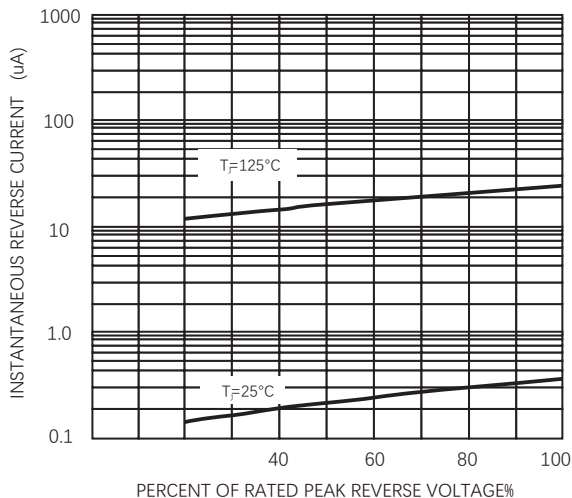


FIG.4-TYPICAL REVERSE CHARACTERISTICS



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