

D3K4005 THRU D3K410

GENERAL PURPOSE BRIDGE RECTIFIER Reverse Voltage:50 to 1000Volts Forward Current:4.0 Amps

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

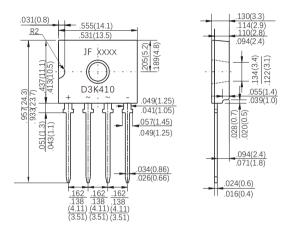
MECHANICAL DATA

- · 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.

D3K



Dimensions in inches and (milimeters)

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%.)

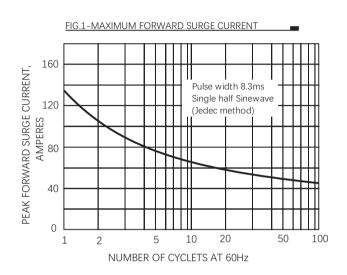
Parameters		Symbol	D3K4005	D3K401	D3K402	D3K404	D3K406	D3K408	D3K410	Units
Maximum Reverse Peak Reverse Voltage		V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		$V_{\scriptscriptstyle RMS}$	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current @Tc=135℃ with Heatsink @Tc=25℃ without Heatsink Heatsink		$I_{F(AV)}$	4.0 1.5							Amps
Peak Forward Surge Current 8.3ms Single Half Sine-wave Superimposed on Rated Load		I _{FSM}	135							Amps
Rating for Fusing (t =8.3ms)		l²t	75.63							A ² S
Maximum Instantaneous Forward Voltage at IF=2.0A DC		$V_{\scriptscriptstyle F}$	1.0							Volts
Maximum DC Reverse Current at rated DC blocking voltage	T,=25°C	l _R	5.0							μΑ
	T₁=125°C		100							μΑ
Typical Thermal Resistance (Note2) Junction to Ambient Junction to Case		$R_{\theta JA}$	55							°C/W
		R _{esc}	1.5							
Typical Junction capacitance (Note 1)		C,	50							pF
Operating and Storage Temperature Range		$T_{\scriptscriptstyle J}, T_{\scriptscriptstyle STG}$	-55 to +150							°C

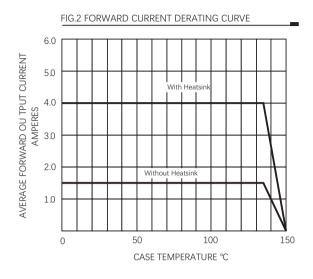
NOTE: 1.Measured at 1MHz and applied reverse voltage of 4.0 Volts.

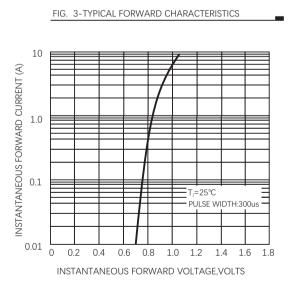
2)Device mounted on FR-4 PCB with 75mm x 45mm x 5.5mm aluminum heatsink.

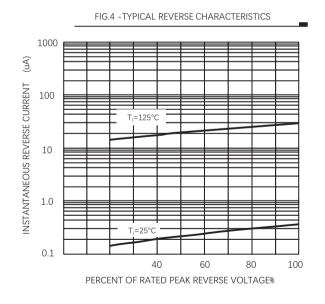


RATINGS AND CHARACTERISTIC CURVES D3K4005 THRU D3K410











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