

D3K4005 THRU D3K410

4A Miniature Glass Passivated Single-Phase Bridge Rectifiers

■ Features

- Recommended for non-automatic applications.
- Ideal for & save space on printed circuit board.
- Applicable for automatic insertion.
- Reliable low cost construction utilizing molded plastic technology results in inexpensive product.
- · Glass passivated chip junctions.
- Suffix "G" indicates Halogen-free part, ex.D3K4005G.
- · Lead-free parts meet RoHS requirments.

■ Mechanical data

• Epoxy:UL94-V0 rated flame retardant

· Case: Molded plastic, D3K

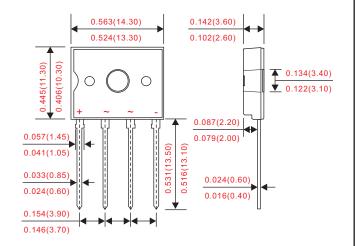
• Terminals : Solder plated, solderable per

MIL-STD-750, Method 2026

• Polarity : marked on body

Outline

D3K



Dimensions in inches and (millimeters)

■ 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%.

Parameter	Conditions	Symbol	MIN.	TYP.	MAX.	UNIT
Forward rectified current	with heatsink $T_c = 140^{\circ}C$	Io			4.0	Α
Forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I _{FSM}			135	А
	$V_R = V_{RRM} T_A = 25^{\circ}C$				10	uA
Reverse current	$V_R = V_{RRM} T_A = 125^{\circ}C$	I _R			500	
Current squared time	t < 8.3ms, T _J = 25°C	l²t			75	A^2S
Thermal resistance	junction to ambient	R _{eJA}			55	°C/W
Storage temperature		T _{stg}	-55		+150	°C

Marking code	Max. repetitive peak reverse voltage V _{RRM} (V)	Max. RMS voltage V _{RMS} (V)	Max. DC blocking voltage $V_{_{R}}(V)$	Max. forward voltage @2A, $T_A = 25^{\circ}C$ $V_F(V)$	Operating temperature T _J (°C)
D4UB05	50	35	50		
D4UB10	100	70	100		
D4UB20	200	140	200		
D4UB40	400	280	400	1.0	-55 ~ +150
D4UB60	600	420	600		
D4UB80	800	560	800		
D4UB100	1000	700	1000		
V	D4UB05 D4UB10 D4UB20 D4UB40 D4UB60 D4UB80	Parking code repetitive peak reverse voltage VRRM (V) D4UB05 50 D4UB10 100 D4UB20 200 D4UB40 400 D4UB60 600 D4UB80 800	Max. RMS voltage V _{RRM} (V) Max. RMS voltage V _{RMS} (V) D4UB05 50 35 D4UB10 100 70 D4UB20 200 140 D4UB40 400 280 D4UB60 600 420 D4UB80 800 560	Rarking code repetitive peak reverse voltage V_RMS voltage V_RMS (V) Name V_R (Rarking code repetitive peak reverse voltage V_RMS voltage V_RMS (V) NR (V

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■ Rating and characteristic curves

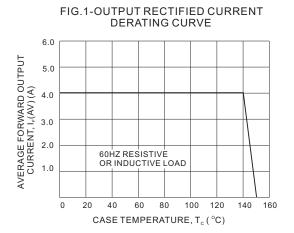


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

140

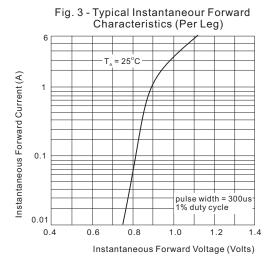
120

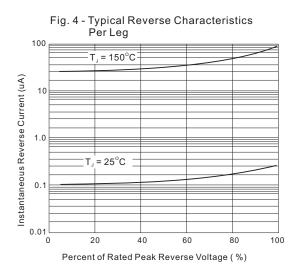
120

120

10

NUMBER OF CYCLES AT 60 HZ





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