

Super Fast Recovery Rectifier Bridge Reverse Voltage - 300 to 600 V Forward Current - 8.0A

FEATURES

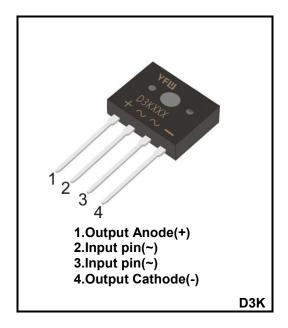
- ♦High current capability
- ♦Low forward voltage drop
- **♦**Glass Passivated Chip Junction
- ♦Low power loss, high efficiency
- ♦Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

♦Case:D3K

♦Terminals: Solderable per MIL-STD-202E, Method 208C

Case:UL-94 Class V-0 recognized Flane Retardant Epoxy



Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Parameter	Symbols	D3K803SF	D3K806SF	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	300	600	v
Maximum RMS voltage	V _{RMS}	200	420	v
Maximum DC Blocking Voltage	V _{DC}	300	600	v
Average Rectified Output Current	I _(AV)	8.0		Α
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	190		Α
Forward Voltage per element @lr =4A DC	V _F	1.15	1.45	v
Maximum Reverse Recovery Time	Trr	55		nS
Maximum DC Reverse Current at Rated DC Blocking Voltage	. I _R	5 500		μΑ
I2t Rating for Fusing(3ms≤t≤8.3ms)	l ² t	120		A ² S
Typical Junction Capacitance	C _j	50		pF
Operating and Storage Temperature Range	Tj, Tstg	-55 ~ + 175		°C

⁽¹⁾ Measured at 1 MHz and applied reverse voltage of 4 V D.C

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⁽²⁾ Device mounted on 50mm*50mm*1. 6mm cu plate heatsink



Ratings and Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

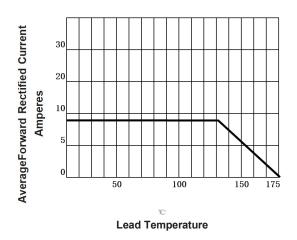


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

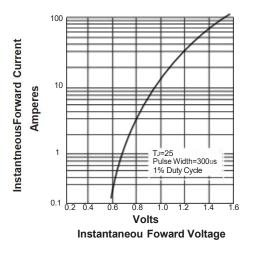
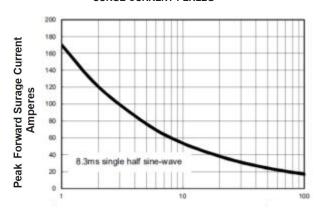
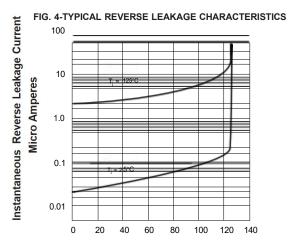


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG



Number of cycles

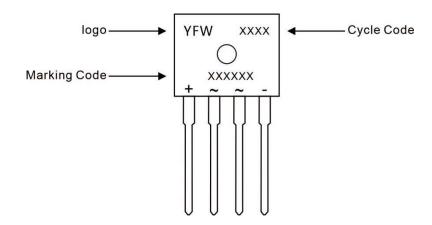


Percent Of Rated Peak Reverse Voltage(%)

2 / 4



Marking Diagram

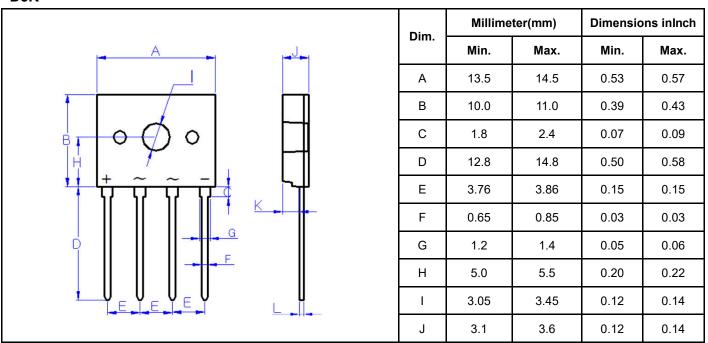


Ordering information

Package	Packing Description	Packing Quantity
D3K	bulk	500PCS/Box 5000PCS/Carton

Package Dimensions

D3K





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