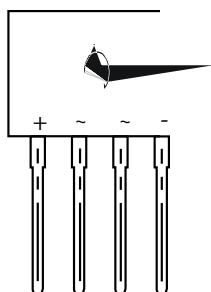


Ultrasoft Recovery Bridge



- Glass Passivated Chip Junction
- Reverse Voltage - 1000 V
- Forward Current - 4 A
- High Surge Current Capability
- Designed For Surface Mount Application

PIN	DESCRIPTION
1	Input Pin ~
2	Input Pin ~
3	Output Anode +
4	Output Cathode -

- Case: D3K
- Terminals: Solderable Per MIL-STD-750

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

	Symbols	WRD3K410	
Maximum Repetitive Peak Reverse Voltage	VRRM	1000	V
Maximum RMS voltage	VRMS	700	V
Maximum DC Blocking Voltage	VDC	1000	V
Average Rectified Output Current	I_o	4.0	A
Reverse Recovery Time. $I_F=0.5A, I_R=1A, I_{RR}=0.25A$	T_{rr}	10	us
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	120	A
$I^2 t$ rating for fusing ($1ms < t < 10ms$)	$I^2 t$	93	A ² S
Maximum Forward Voltage at 2.0 A	V_F	1.0	V
Maximum DC Reverse Current @ $T_A=25\text{ }^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_A=125\text{ }^\circ\text{C}$	I_R	5 100	μA
Typical Junction Capacitance Note1	C_j	50	pF
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +175	$^\circ\text{C}$

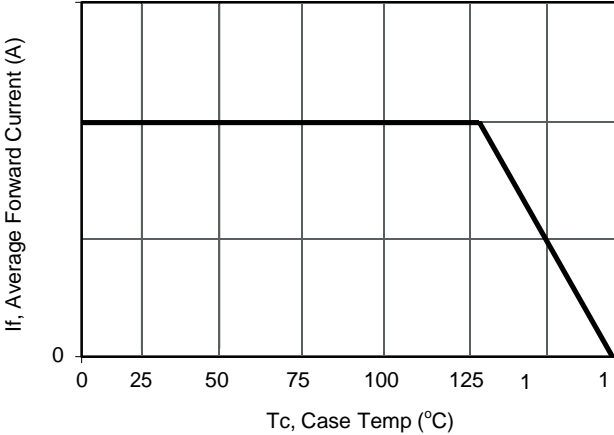
Note: 1. Measured at 1MHz and applied reverse voltage of 4 VDC.

2. Mounted on glass epoxy PC board with $4 \times 1.5'' \times 1.5''$ (3.81×3.81 cm) copper pad.

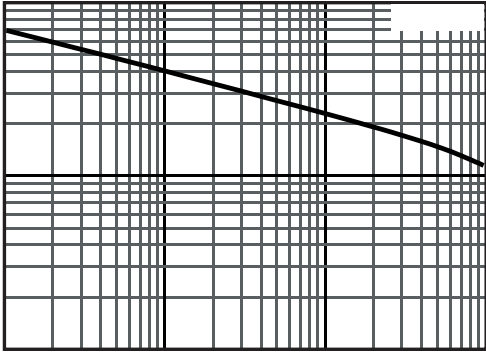
WRD3K410

23-Apr-2020

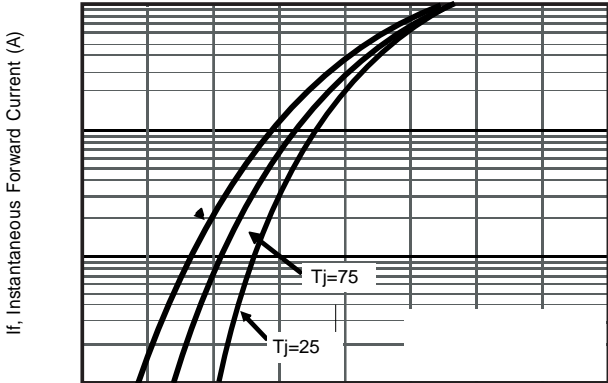
RATINGS AND CHARACTERISTICS CURVES (TA = 25 °C unless otherwise noted)



Current Derating, Case



Typical Junction Capacitance



Vf, Instantaneous Forward Voltage (V)

Typical Forward Voltage

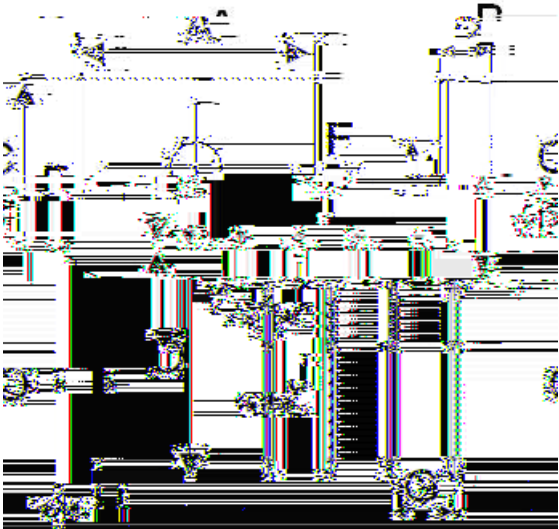
VR, Reverse Voltage (Volts)

Typical Reverse Current

WRD3K410

23-Apr-2020

D3K



D3K		
Dim.	Min.	Max.
A	14.2	14.7
B	3.30	3.60
C	10.2	10.6
D	13.8	14.4
E	1.8	2.2
F	6.65	7.25
G	3.71	3.91
H	0.3	0.55
I	1.22	1.42
J	0.76	0.86
O	1.8	2.4
P	3.0Φ	3.4Φ

All Dimensions in millimeter

