



RD3K410

Ultrasoft Recovery Bridge

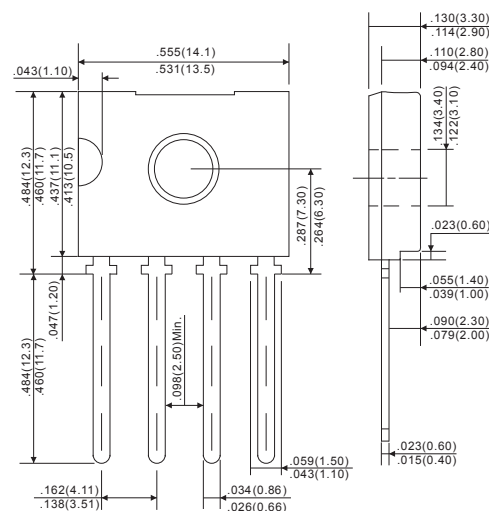
D3K

Features

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

Benefits

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



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical characteristics

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 %.

Parameter	Symbols	RD3K410	Units
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. IF=0.5A,IR=1A,IRR=0.25A	T _{rr}	10	us
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	IFSM	150	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 @TA=25 °C at Rated DC Blocking Voltage @TA=125 °C	I _R	5 100	μA
Typical Junction Capacitance (Note1)	C _j	50	pF
Operating and Storage Temperature Range	T _j , T _{stg}	-55 ~ +150	°C

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

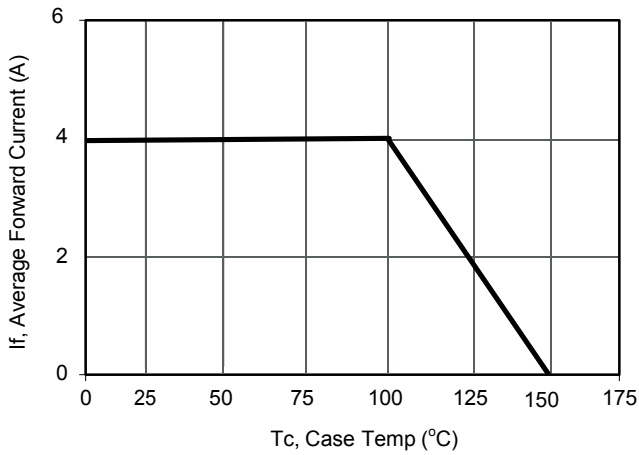
2. Mounted on glass epoxy PC board with 4 × 1.5" × 1.5" (3.81 × 3.81 cm) copper pad.



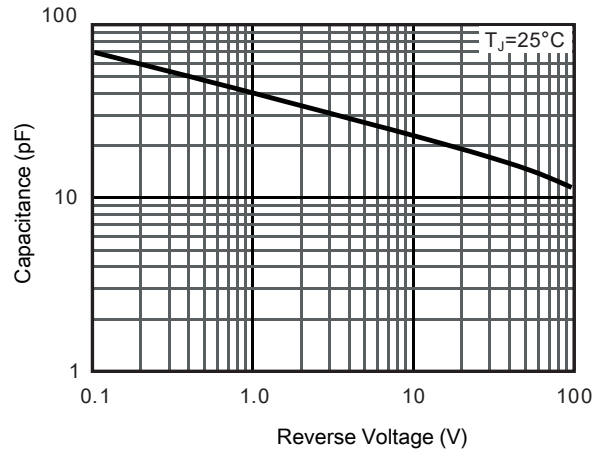
RD3K410

Ultrasoft Recovery Bridge

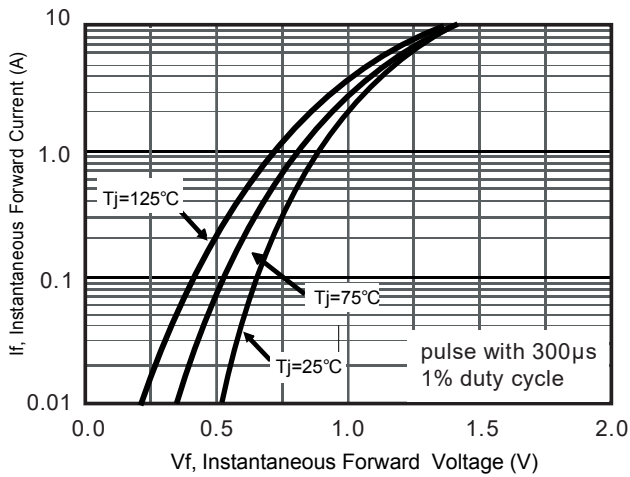
Characteristic Curves ($T_A=25\text{ }^\circ\text{C}$ unless otherwise noted)



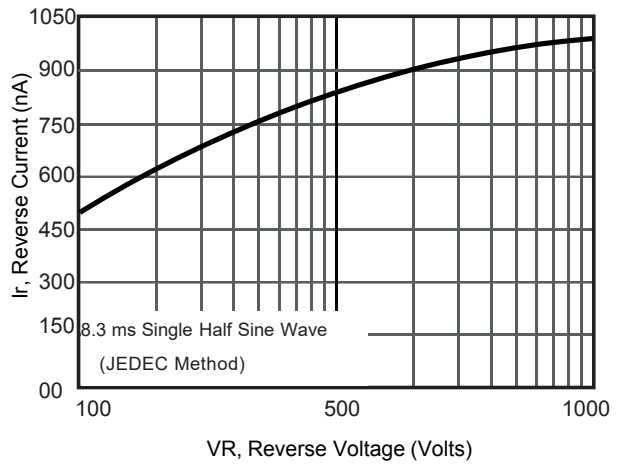
Current Derating, Case



Typical Junction Capacitance



Typical Forward Voltage



Typical Reverse Current