



UFHV Series

2KV to 4KV
High Voltage Diodes

Features

- Miniature package, glass passivated junctions
- High Peak reverse voltage
- Fast Reverse Recovery time for high efficiency
- RoHS compliant to Directive 2011/65/EC, Article 4(1), Annex II, Annex III, 7(a) and EU RoHS Directive (EU) 2015/863 of March 2015, Amending Annex II.



DEVICE ELECTRICAL CHARACTERISTICS

(25°C ambient temperature unless stated otherwise)

	Conditions	Symbol	UFHV2K	UFHV3K	UFHV4K
Maximum Repetitive Peak Reverse Volt.	-	V_{RRM}	2000V	3000V	4000V
Average Forward Current Maximum	$T_A = 55^\circ\text{C}$	I_{FAVM}	550mA	400mA	350mA
Maximum Forward Voltage Drop	$I_F = I_{FAVM}$	V_F	3.0V	4.1V	5.5V
Maximum Surge Current Rating	8.3msec, half sine	I_{FSM}	30 Amps		
Maximum Reverse Current	At rated V_{RRM}	I_R	5.0 μA		
Maximum Reverse Recovery Time	$I_F=200\text{mA}$, $I_R=-400\text{mA}$, $I_{RR}=-100\text{mA}$	T_{RR}	75 nsec		
Typical Junction Capacitance	$f = 1\text{MHz}$, $V_r = 0\text{VDC}$	C_J	12pF	8pF	6pF
Maximum Junction Temperature	-	T_J	150°C		
Storage Temperature Range	-	T_{STG}	-55°C to 150°C		

MECHANICAL DATA

	Symbol	Min.		Max.	
		in	mm	in	mm
Body Length	A	-	-	0.20	5.2
Body Diameter	D	-	-	0.10	2.7
Lead Length	B	1.0	25.4	-	-
Lead Diameter	C	-	-	0.034	0.86

