

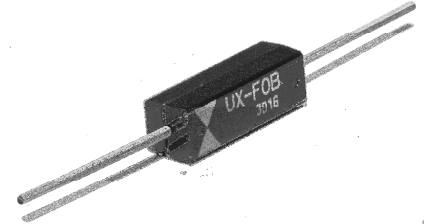


# UX-FOB

8KV, 500mA, Ultra Fast Recovery  
High Voltage Diode

## Features

- Ultra fast reverse recovery time for high efficiency
- Molded plastic body, ANSI/UL94 V-0 rated material
- Axial leaded device
- RoHS compliant based on exemption: [2011/65/EC, Annex III, 7(a)]



## Device Electrical Characteristics

(25°C ambient temperature unless stated otherwise)

	Conditions	Symbol	Value
Maximum Repetitive Peak Reverse Voltage		$V_{RRM}$	8,000 Volts
Average Forward Current maximum	$T_A = 55^\circ\text{C}$	$I_{FAVM}$	500 mA
Maximum Forward Voltage Drop	$I_F = 400\text{mA}$	$V_F$	12 Volts
Maximum Surge Current rating	8.3msec, half sine	$I_{FSM}$	20 Amps
Maximum Reverse Current	at rated $V_{RRM}$	$I_R$	0.5 $\mu\text{A}$
Maximum Reverse Recovery Time	$I_F=250\text{mA}, I_R= 0.5\text{A}, I_{RR}= 125\text{mA}$	$T_{RR}$	40 nsec
Typical Virtual Junction Capacitance	$f=1\text{Mhz}, V_r = 0\text{VDC}$	$C_J$	7.7 pf
Maximum Junction Temperature	-	$T_J$	150°C
Storage Temperature range	-	$T_{STG}$	-40°C to 150°C

## Mechanical Data

	Symbol	Min.		Max.	
		in.	mm	in.	mm
Body length	A	-	-	0.87	22
Body diameter (Square, rectangular body)	D	-	-	0.30	7.5
Lead length	B	0.87	22	-	-
Lead diameter	C	-	-	0.047	1.2

