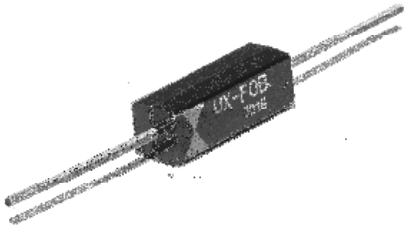
UX-FOB

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



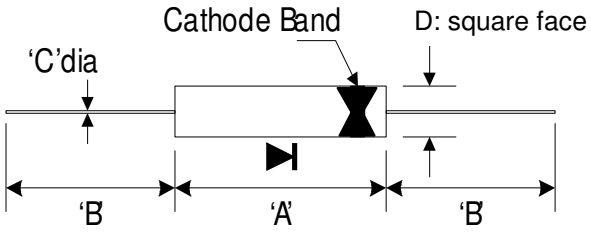
Features

- 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°C	I_{FAVM}	500 mA
Maximum Forward Voltage Drop	I_F = 400mA	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 µA
Maximum Reverse Recovery Time	I_F=250mA, I_R= 0.5A, I_{RR}= 125mA	T_{RR}	40 ηsec
Typical Virtual Junction Capacitance	f =1Mhz, Vr = 0VDC	C_J	7.7 pf
Maximum Junction Temperature	-	T_J	150°C
Storage Temperature range	-	T_{STG}	-40°C to 150°C

		Min.		Max.	
Mechanical Data	**Symbol**	**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



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