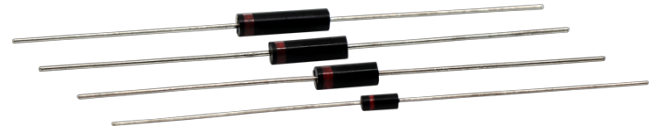


XGF06

6KV, 150 mA
Fast Recovery
High Voltage Diode

Features

- High voltage, higher current diode in small form factor
- Molded plastic body, ANSI/UL94 V-0 rated material
- Uses new Dean Technology, XOE Technology
- 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*	Conditions	Symbol	Value
Maximum Repetitive Peak Reverse Voltage	-	V_{RRM}	6,000 Volts
Average Forward Current maximum	$T_{AIR} = 55^{\circ}C$	I_{FAVM}	150 mA
Average Forward Current maximum	$T_{OIL} = 55^{\circ}C$	I_{FAVM}	300 mA
Maximum Forward Voltage Drop	$I_F = 300 \text{ mA}, t_{PW} = 100\mu\text{sec}$	V_F	10.2 Volts
Typical Thermal Resistance (junction to ambient)	In air	$R\theta_{JA}$	73 $^{\circ}C/W$
Maximum Surge Current rating	8.3msec, half sine	I_{FSM}	15 Amps
Maximum Reverse Current	at rated V_{RRM}	I_R	0.2 μA
Maximum Reverse Recovery Time	$I_F=75\text{mA}; I_R=-150\text{mA}; I_{RR}=-37\text{mA}$	TRR	80 ns
Maximum Reverse Energy Withstand	-	E_{RSM}	200 mJ
Typical Junction Capacitance	$f = 1\text{Mhz}, V_r = 0\text{VDC}$	C_j	5.4 pF
Maximum Junction Temperature	-	T_j	125 $^{\circ}C$
Storage Temperature Range	-	T_{STG}	-55 $^{\circ}C$ to 175 $^{\circ}C$

(*Note: 25 $^{\circ}C$ ambient temperature unless stated otherwise.)

Mechanical Data		Min.		Max.	
		in.	mm	in.	mm
Body length	L	-	-	0.32	8
Body diameter	D	-	-	0.12	3.0
Lead length	l	1.0	25.4	-	-
Lead diameter	d	-	-	0.025	0.6

