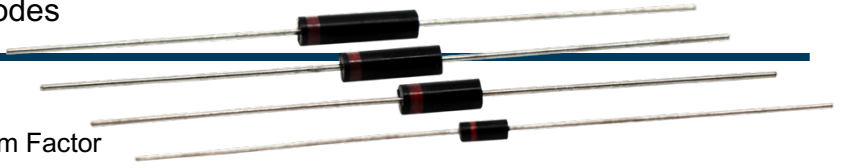




XGF SERIES

6 to 20kV, 160 to 300mA, 80nS
XOE Axial Lead Diodes



Features

- High Voltage, Higher Current Diodes in Small Form Factor
- Utilizes DTI's High Performance XOE™ Technology
- Molded Plastic Body, ANSI/UL94 V-0 Rated Material

Specifications¹

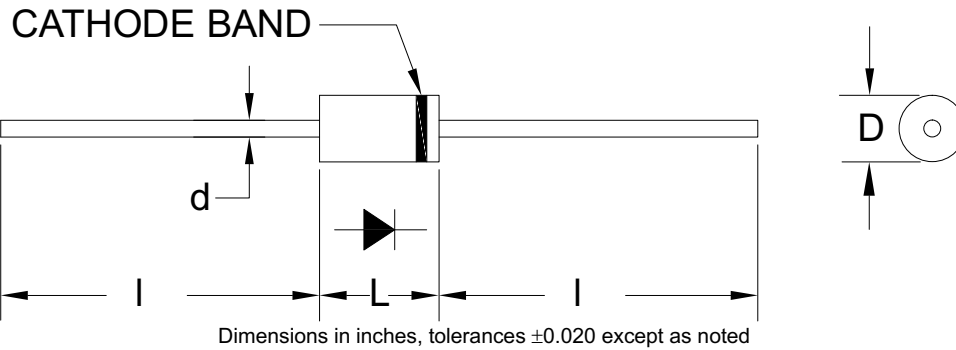
Part Number	V _{RRM} V	I _{FAVM1} mA	I _{FAVM2} mA	V _F V	I _R μA	I _{FSM} A	C _J pF	T _{RR} nS	R _{θJA} ² °C/W	E _{RSM} mJ	L in.	D in.	d in.	l in.
XGF06	6000	300	150	10.2	0.2	15	5.4	80	73	200	0.32	0.12	0.025	1.0
XGF07	7000	260	130	10.6	0.2	15	5.0	80	73	300	0.32	0.12	0.025	1.0
XGF08	8000	240	120	11.0	0.2	15	4.7	80	73	350	0.32	0.12	0.025	1.0
XGF10	10000	200	100	11.5	0.2	15	4.5	80	73	500	0.32	0.12	0.025	1.0
XGF12	12000	180	90	15.9	0.2	15	3.0	80	62	500	0.40	0.12	0.025	1.0
XGF15	15000	160	80	20.2	0.2	15	2.5	80	62	500	0.40	0.12	0.025	1.0
XGF20	20000	160	80	28.6	0.2	15	2.3	80	62	500	0.47	0.12	0.025	1.0

Temperature °C	
Operating Temperature	-55 to 125
Storage Temperature	-55 to 175
Maximum Junction Temperature	125

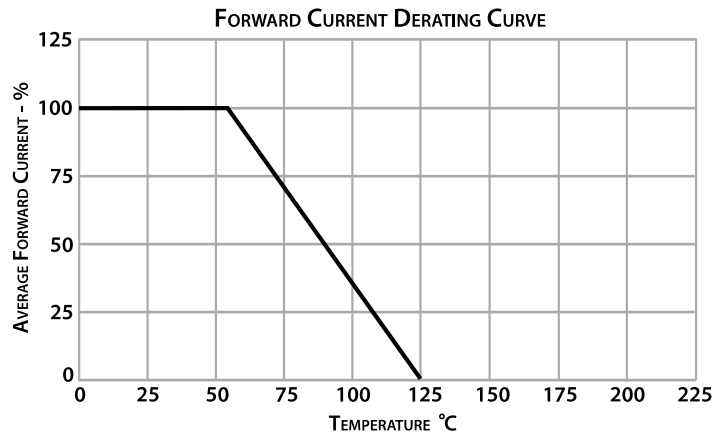
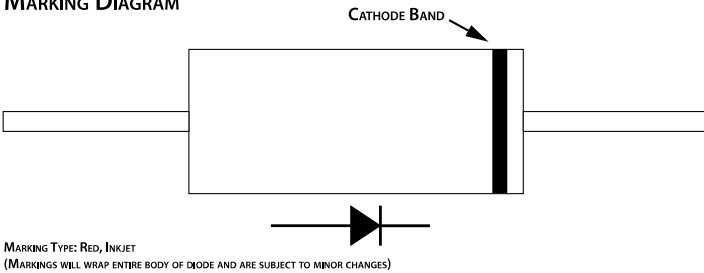
¹25°C ambient temperature unless stated otherwise.

²Check Specification Definitions for conditions details.

Drawings



MARKING DIAGRAM

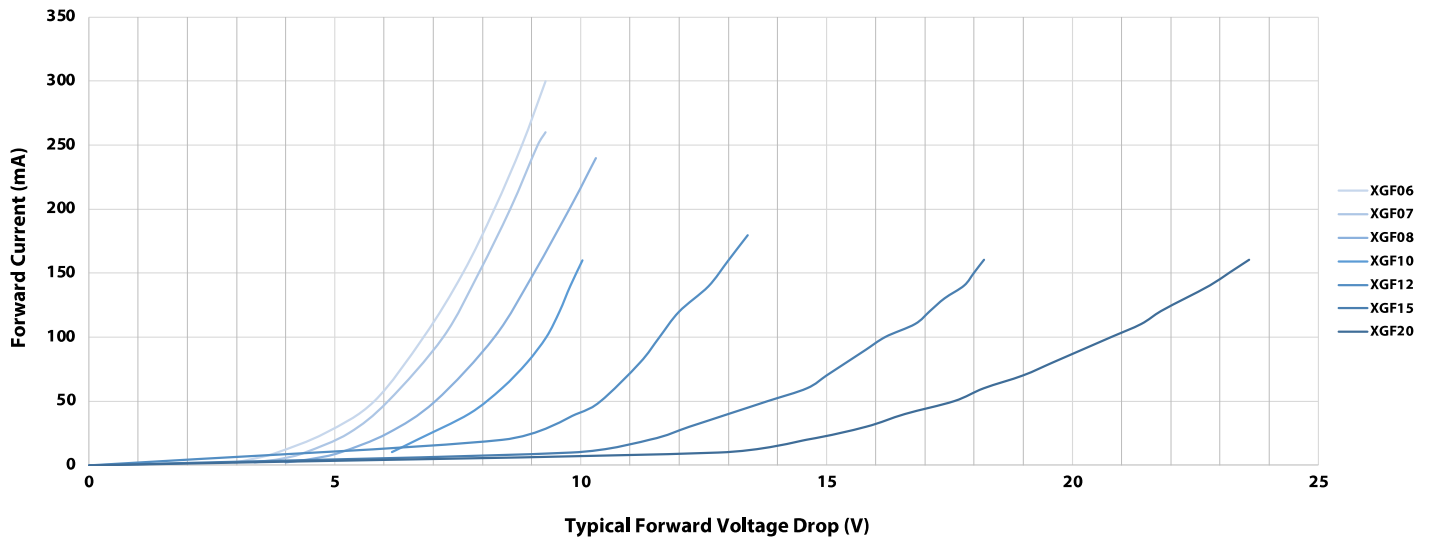


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PAGE: 1 OF 2

**Forward Current vs. Typical Forward Voltage Drop, $T_A = 25^\circ\text{C}$
XGF Series**



Specification Definitions

Specifications		Conditions
V_{RRM}	Maximum Repetitive Reverse Voltage	-
I_{FAVM1}	Maximum Average Forward Current	At $T_A = 55^\circ\text{C}$, in Oil
I_{FAVM2}	Maximum Average Forward Current	At $T_A = 55^\circ\text{C}$
V_F	Maximum Forward Voltage Drop	At $I_{FAVM(OIL)}$, $t_{PW} = 100\mu\text{sec}$
I_R	Maximum Leakage Current	At V_{RRM}
I_{FSM}	Maximum Surge Current	At 8.3mS, Single Half Sine
C_J	Typical Junction Capacitance	At $V_R = 0\text{VDC}$, $f = 1\text{MHz}$
T_{RR}	Maximum Reverse Recovery Time	$I_F = 40\text{mA}$; $I_R = -100\text{mA}$; $I_{RR} = -20\text{mA}$
$R_{\theta JA}$	Typical Thermal Resistance	Junction to Ambient, in Air (XGF06 to XGF10) Junction to Oil, in Dielectric Oil (XGF12 to XGF20)
E_{RSM}	Maximum Reverse Energy Withstand	-

Note: Specifications subject to change without notice. Photo is representation only.

