

## 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

## Specifications<sup>1</sup>

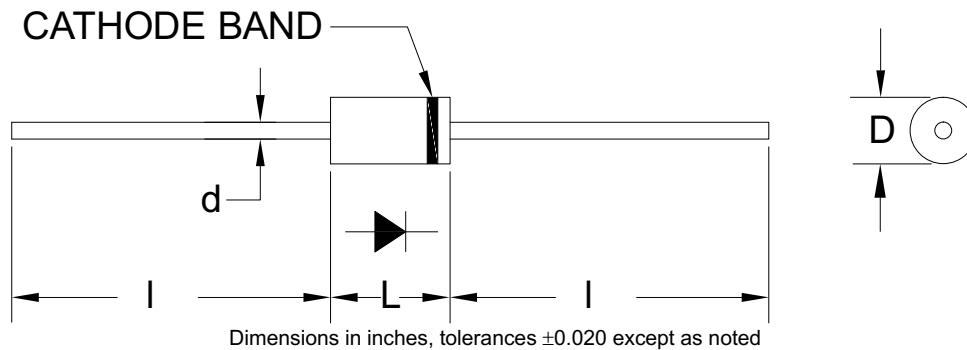
Part Number	V <sub>RRM</sub> V	I <sub>FAVM1</sub> mA	I <sub>FAVM2</sub> mA	V <sub>F</sub> V	I <sub>R</sub> μA	I <sub>FSM</sub> A	C <sub>J</sub> pF	T <sub>RR</sub> nS	R <sub>θJA</sub> <sup>2</sup> °C/W	E <sub>RSM</sub> mJ	L in.	D in.	d in.	l in.
XGF06	6000	300	150	10.2	0.2	15	5.4	80	73	200	0.32	0.12	0.025	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

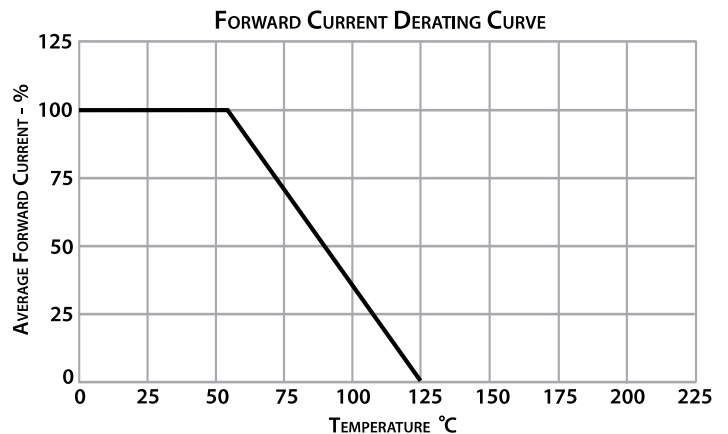
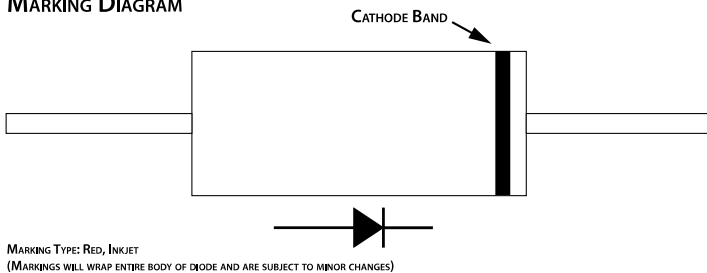
<sup>1</sup>25°C ambient temperature unless stated otherwise.

<sup>2</sup>Check Specification Definitions for conditions details.

## Drawings

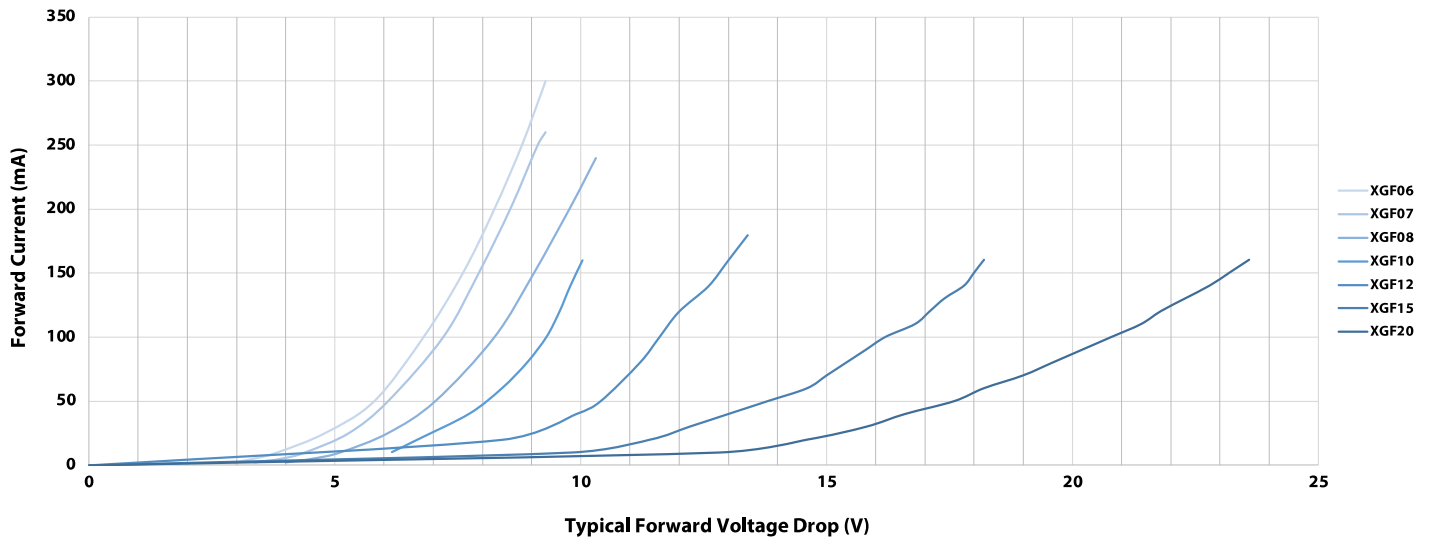


### MARKING DIAGRAM



# XGF SERIES

**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.

