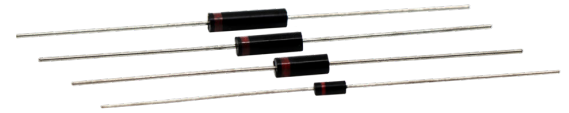


Features

- 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

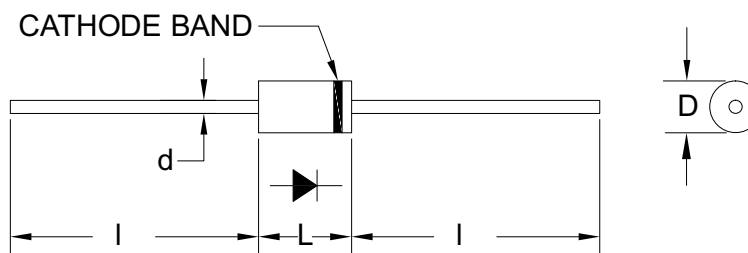
Part Number	V _{RRM} V	I _{FAVM1} mA	I _{FAVM2} mA	V _F V	I _R μA	I _{FSM} A	C _J pF	T _{RR} nS	R _{θJA} ² °C/W	E _{RSM} mJ	L in.	D in.	d in.	l in.
XGF06	6000	350	250	7.4	0.2	30	7.0	80	52	200	0.32	0.12	0.025	1.0
XGF07	7000	325	225	7.8	0.2	28	6.0	80	52	300	0.32	0.12	0.025	1.0
XGF08	8000	280	200	9.8	0.2	25	5.0	80	52	350	0.32	0.12	0.025	1.0
XGF10	10000	250	180	12.2	0.2	20	4.0	80	52	500	0.32	0.12	0.025	1.0
XGF12	12000	225	165	12.8	0.2	19	3.7	80	35	500	0.40	0.12	0.025	1.0
XGF15	15000	200	150	17.5	0.2	18	3.2	80	35	500	0.40	0.12	0.025	1.0
XGF20	20000	175	125	25.7	0.2	15	2.5	80	50	500	0.47	0.12	0.025	1.0
XGF25	25000	140	100	30.7	0.2	13	1.7	80	50	500	0.47	0.12	0.025	1.0
XGF30	30000	110	80	36.0	0.2	10	1.4	80	50	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.

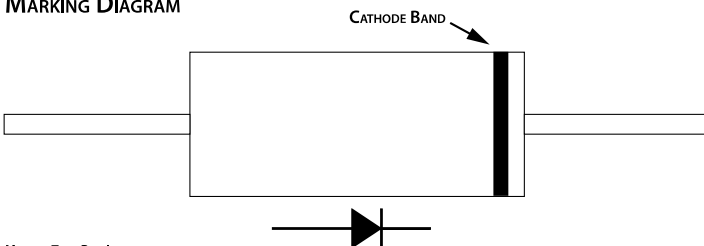
²Check Specification Definitions for conditions details.

Drawings

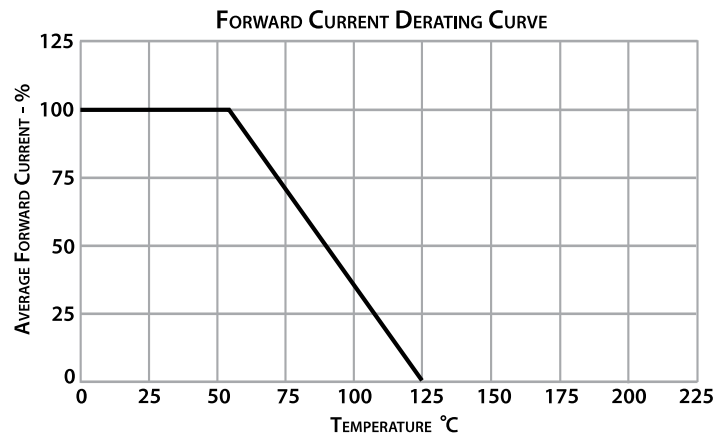


Dimensions in inches, tolerances ±0.020 except as noted

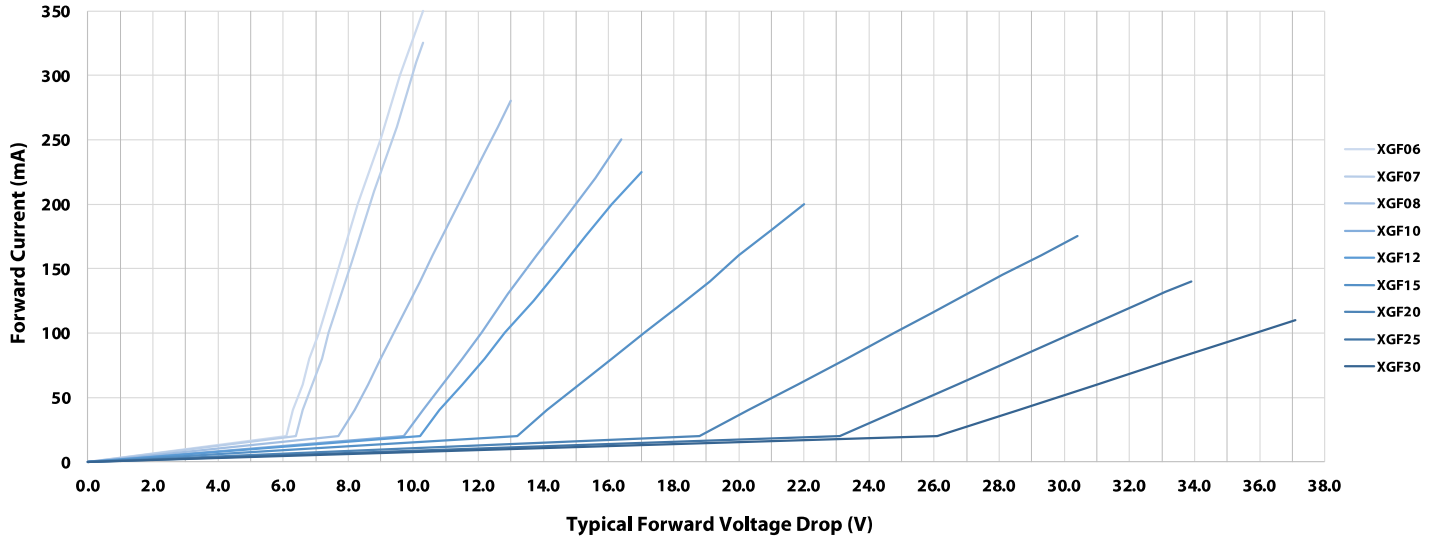
MARKING DIAGRAM



MARKING TYPE: RED, INKJET
(MARKINGS WILL WRAP ENTIRE BODY OF DIODE AND ARE SUBJECT TO MINOR CHANGES)



Forward Current vs. Typical Forward Voltage Drop 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 $T_A = 55^\circ\text{C}$, in Air
V_F	Maximum Forward Voltage Drop	At $I_F = 100\text{mA}$
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 XGF15) Junction to Oil, in Dielectric Oil (XGF20 to XGF30)
E_{RSM}	Maximum Reverse Energy Withstand	-

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

