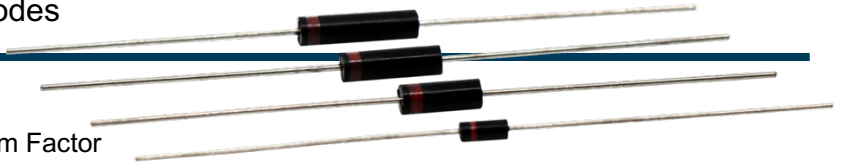




XGA SERIES

2 to 10kV, 100 to 340mA, 70nS
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

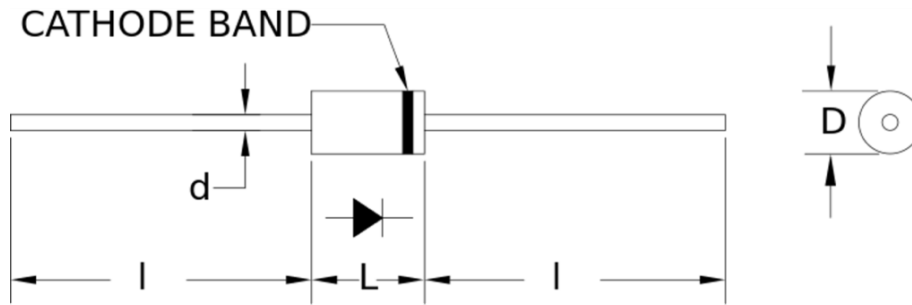
Part Number	V _{RRM} V	I _{FAVM1} mA	I _{FAVM2} mA	V _F V	I _R μA	I _{FSM} A	C _J ² pF	T _{RR} nS	R _{θJA} °C/W	E _{RSM} mJ	L in.	D in.	d in.	I in.
XGA02	2000	340	170	5.4	0.2	5	2.9	70	112	40	0.195	0.08	0.02	1.0
XGA03	3000	260	130	7.5	0.2	5	2.8	70	112	40	0.195	0.08	0.02	1.0
XGA04	4000	220	110	10.4	0.2	5	3.7	70	112	40	0.195	0.08	0.02	1.0
XGA05	5000	180	90	11.3	0.2	5	2.6	70	112	40	0.195	0.08	0.02	1.0
XGA06	6000	160	80	13.3	0.2	5	2.4	70	112	50	0.195	0.08	0.02	1.0
XGA08	8000	130	65	15.9	0.2	5	1.5	70	112	70	0.195	0.08	0.02	1.0
XGA10	10000	100	50	18.0	0.2	5	1.4	70	112	70	0.195	0.08	0.02	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.

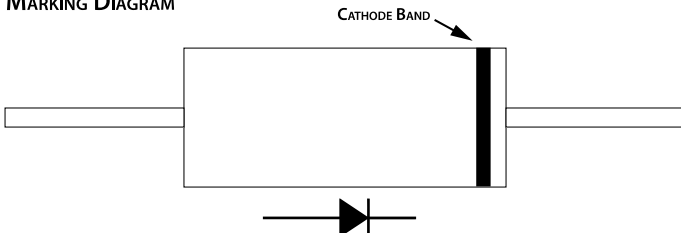
²Check Specification Definitions for conditions details.

Drawings

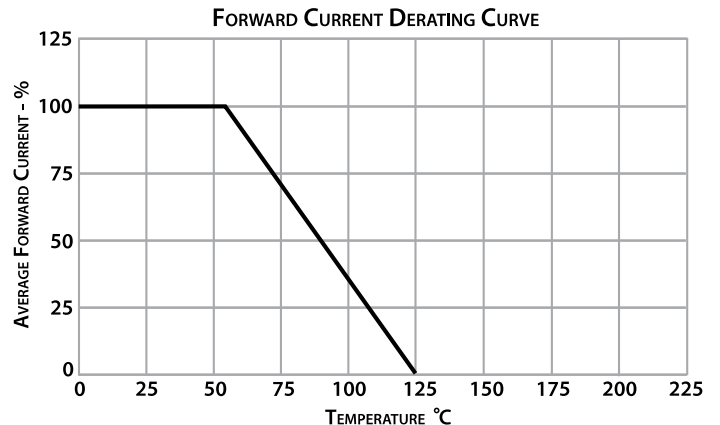


Dimensions in inches, tolerances ±0.020 except as noted

MARKING DIAGRAM



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

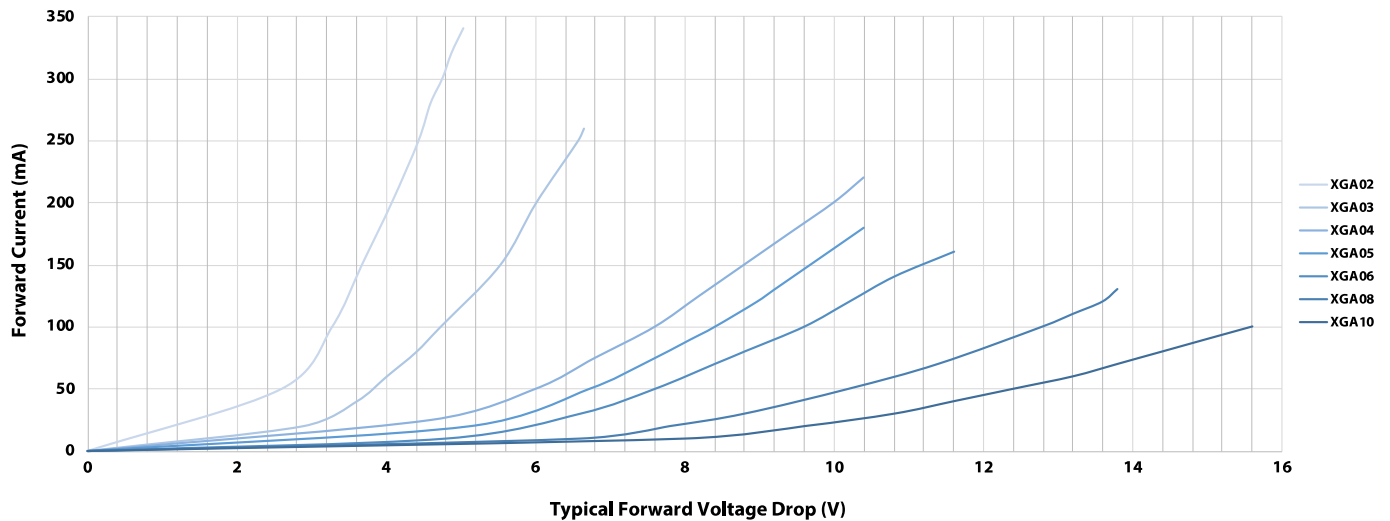


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VERSION: 1.0
EFFECTIVE: 12 AUGUST 2021
PAGE: 1 OF 2

Forward Current vs. Typical Forward Voltage Drop, $T_A = 25^\circ\text{C}$
XGA 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_{FAVM1} , $t_{PW} = 100\mu\text{sec}$
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 $V_R = 4\text{VDC}$, $f = 1\text{MHz}$ (XGA02, XGA03) At $V_R = 0\text{VDC}$, $f = 1\text{MHz}$ (All other models)
T_{RR}	Maximum Reverse Recovery Time	$I_F = 0.5 I_{FAVM1}$; $I_R = -I_{FAVM1}$; $I_{RR} = -0.25 I_{FAVM1}$
$R_{\theta JA}$	Typical Thermal Resistance	Junction to Ambient, in Air
E_{RSM}	Maximum Reverse Energy Withstand	-

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

