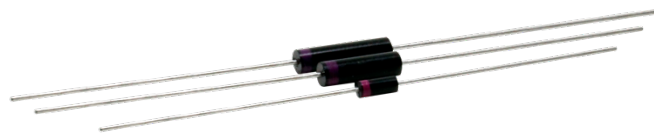


Features

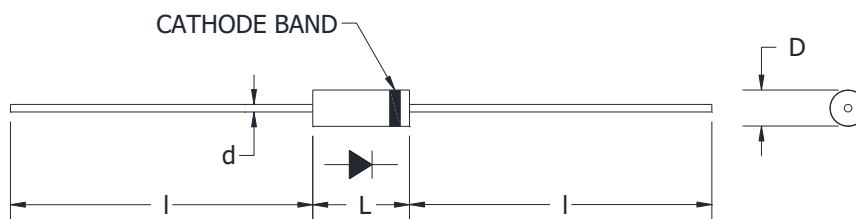
- High voltage, higher current diode in small form factor
- Molded plastic body, ANSI/UL94 V-0 rated material
- Uses new Dean Technology, XOE Technology
- RoHS compliant to Directive 2011/65/EC, Article 4(1), Annex II; Annex III, 7(a) and EU RoHS Directive (EU) 2015/863 of March 2015, Amending Annex II.

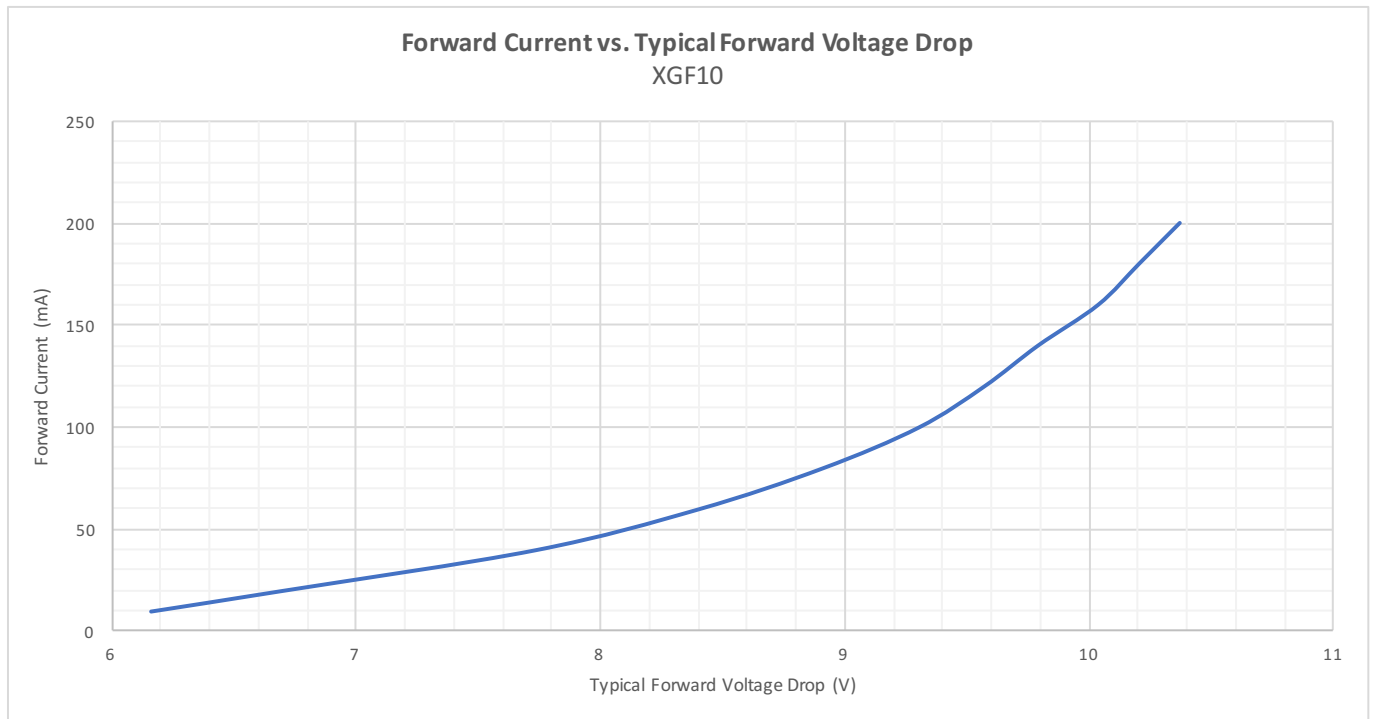


DEVICE ELECTRICAL CHARACTERISTICS*	Conditions	Symbol	Value
Maximum Repetitive Peak Reverse Voltage	-	V_{RRM}	10,000 Volts
Average Forward Current Maximum	$T_{AIR} = 55^{\circ}C$	I_{FAVM}	100 mA
Average Forward Current Maximum	$T_{OIL} = 55^{\circ}C$	I_{FAVM}	200 mA
Maximum Forward Voltage Drop	$I_F = 200 \text{ mA}, t_{PW} = 100 \mu\text{sec}$	V_F	11.5 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	$I_F = 40 \text{ mA}; I_R = -100 \text{ mA}; I_{RR} = -20 \text{ mA}$	T_{RR}	80 ns
Maximum Reverse Energy Withstand	-	E_{RSM}	500 mJ
Typical Junction Capacitance	$f = 1 \text{ Mhz}, V_r = 0 \text{ VDC}$	C_J	4.5 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



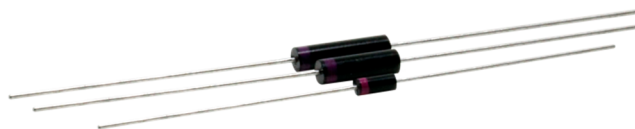


XGF12

12KV, 90 mA
Fast Recovery
High Voltage Diode

Features

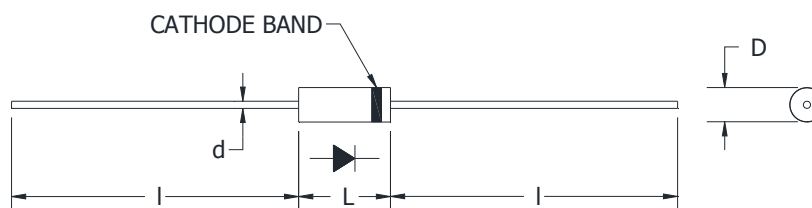
- High voltage, higher current diode in small form factor
- Molded plastic body, ANSI/UL94 V-0 rated material
- Uses new Dean Technology, XOE Technology
- RoHS compliant to Directive 2011/65/EC, Article 4(1), Annex II; Annex III, 7(a) and EU RoHS Directive (EU) 2015/863 of March 2015, Amending Annex II.



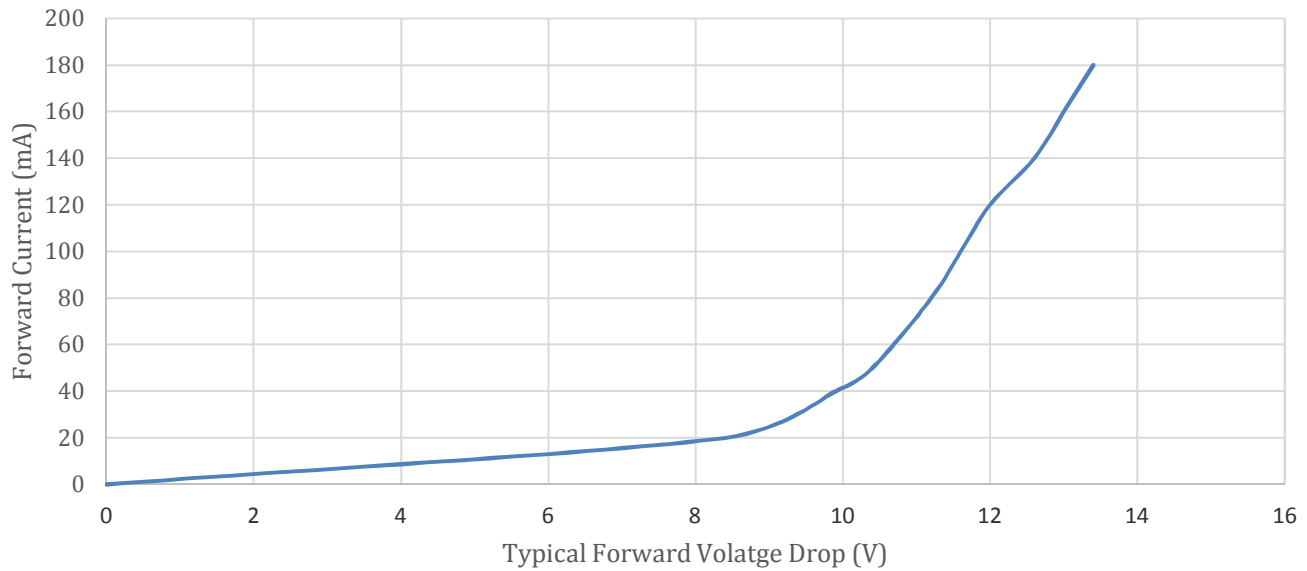
DEVICE ELECTRICAL CHARACTERISTICS*	Conditions	Symbol	Value
Maximum Repetitive Peak Reverse Voltage	-	V_{RRM}	12,000 Volts
Average Forward Current Maximum	$T_{AIR} = 55^{\circ}C$	I_{FAVM}	90 mA
Average Forward Current Maximum	$T_{OIL} = 55^{\circ}C$	I_{FAVM}	180 mA
Maximum Forward Voltage Drop	$I_F = 180 \text{ mA}, t_{PW} = 100 \mu\text{sec}$	V_F	15.9 Volts
Typical Thermal Resistance (junction to oil)	In dielectric oil	$R\theta_{JOIL}$	62 $^{\circ}C/W$
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	$I_F = 40 \text{ mA}; I_R = -100 \text{ mA}; I_{RR} = -20 \text{ mA}$	T_{RR}	80 ns
Maximum Reverse Energy Withstand	-	E_{RSM}	500 mJ
Typical Junction Capacitance	$f = 1 \text{ Mhz}, V_r = 0 \text{ VDC}$	C_j	3 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	-	-	0.40	10
Body Diameter	D	-	-	0.12	3.0
Lead Length	l	1.0	25.4	-	-
Lead Diameter	d	-	-	0.025	0.6



Forward Current vs. Typical Forward Voltage Drop
XGF12

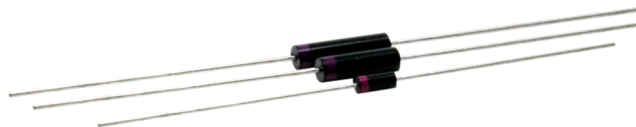


XGF15

15KV, 80 mA
Fast Recovery
High Voltage Diode

Features

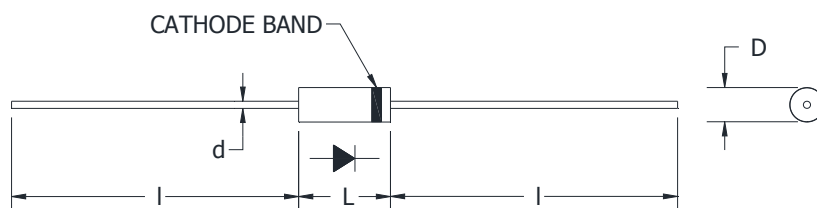
- High voltage, higher current diode in small form factor
- Molded plastic body, ANSI/UL94 V-0 rated material
- Uses new Dean Technology, XOE Technology
- RoHS compliant to Directive 2011/65/EC, Article 4(1), Annex II; Annex III, 7(a) and EU RoHS Directive (EU) 2015/863 of March 2015, Amending Annex II.

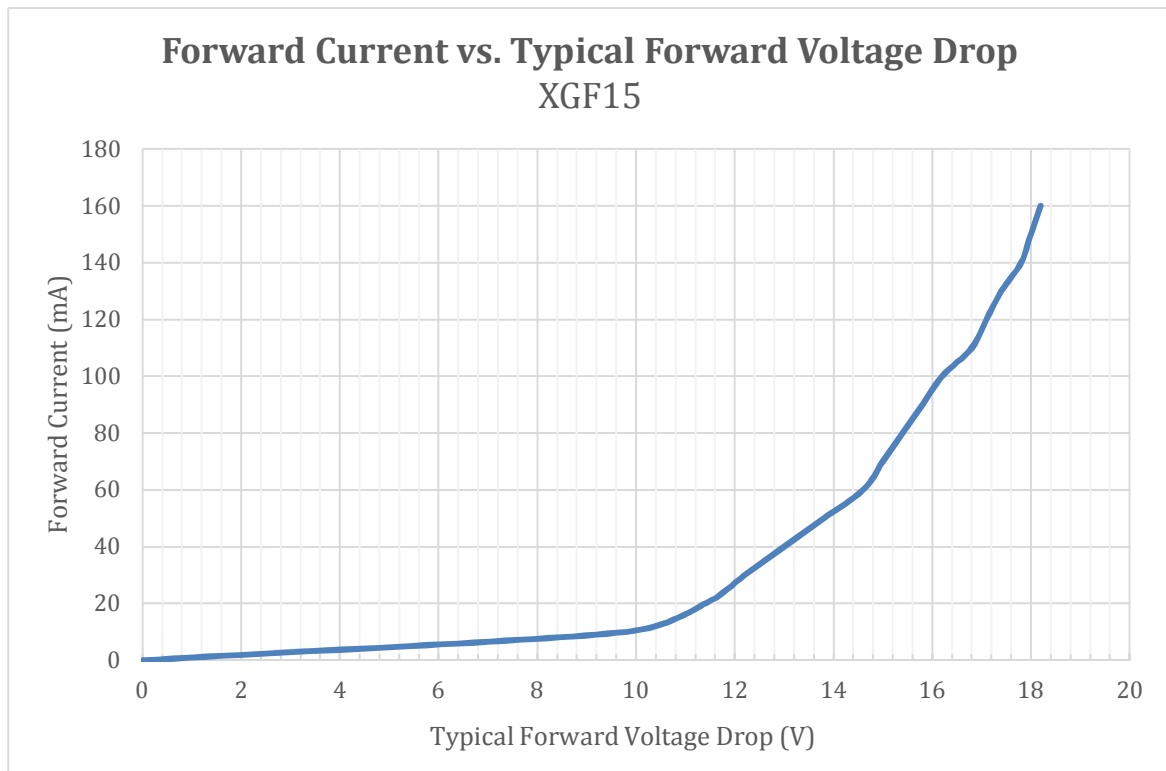


DEVICE ELECTRICAL CHARACTERISTICS*	Conditions	Symbol	Value
Maximum Repetitive Peak Reverse Voltage	-	V_{RRM}	15,000 Volts
Average Forward Current Maximum	$T_{AIR} = 55^{\circ}C$	I_{FAVM}	80 mA
Average Forward Current Maximum	$T_{OIL} = 55^{\circ}C$	I_{FAVM}	160 mA
Maximum Forward Voltage Drop	$I_F = 160 \text{ mA}, t_{PW} = 100\mu\text{sec}$	V_F	20.2 Volts
Typical Thermal Resistance (junction to oil)	In dielectric oil	$R\theta_{JOIL}$	62 $^{\circ}C/W$
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	$I_F = 40 \text{ mA}; I_R = -100 \text{ mA}; I_{RR} = -20 \text{ mA}$	T_{RR}	80 ns
Maximum Reverse Energy Withstand	-	E_{RSM}	500 mJ
Typical Junction Capacitance	$f = 1 \text{ Mhz}, V_r = 0 \text{ VDC}$	C_j	2.5 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	-	-	0.40	10
Body Diameter	D	-	-	0.12	3.0
Lead Length	l	1.0	25.4	-	-
Lead Diameter	d	-	-	0.025	0.6



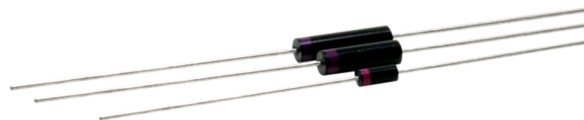


XGF20

20KV, 80 mA
Fast Recovery
High Voltage Diode

Features

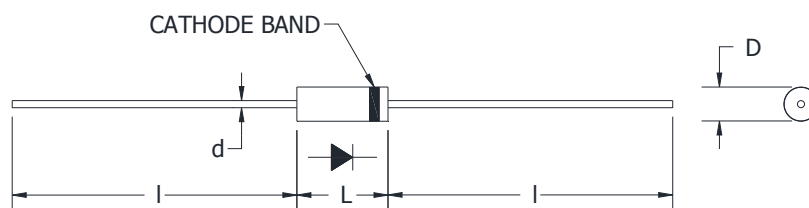
- High voltage, higher current diode in small form factor
- Molded plastic body, ANSI/UL94 V-0 rated material
- Uses new Dean Technology, XOE Technology
- RoHS compliant to Directive 2011/65/EC, Article 4(1), Annex II; Annex III, 7(a) and EU RoHS Directive (EU) 2015/863 of March 2015, Amending Annex II.



DEVICE ELECTRICAL CHARACTERISTICS*	Conditions	Symbol	Value
Maximum Repetitive Peak Reverse Voltage	-	V_{RRM}	20,000 Volts
Average Forward Current Maximum	$T_{AIR} = 55^{\circ}C$	I_{FAVM}	80 mA
Average Forward Current Maximum	$T_{OIL} = 55^{\circ}C$	I_{FAVM}	160 mA
Maximum Forward Voltage Drop	$I_F = 160 \text{ mA}, t_{PW} = 100\mu\text{sec}$	V_F	28.6 Volts
Typical Thermal Resistance (junction to oil)	In dielectric oil	$R\theta_{JOIL}$	60 $^{\circ}C/W$
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	$I_F = 40\text{mA}; I_R = -100\text{mA}; I_{RR} = -20\text{mA}$	T_{RR}	80 ns
Maximum Reverse Energy Withstand	-	E_{RSM}	500 mJ
Typical Junction Capacitance	$f = 1\text{Mhz}, V_r = 0\text{VDC}$	C_j	2.3 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	-	-	0.47	12
Body Diameter	D	-	-	0.12	3.0
Lead Length	l	1.0	25.4	-	-
Lead Diameter	d	-	-	0.025	0.6



Forward Current vs. Typical Forward Voltage Drop
XGF20

