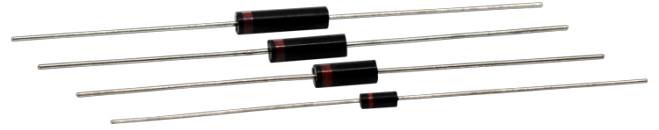


XGA05

5KV, 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}	5,000 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	$I_F = I_{FAVM(oil)}, t_{PW} = 100\mu sec$	V_F	11.3 Volts
Typical Thermal Resistance (junction to ambient)	In Air	$R\theta_{JA}$	112 $^{\circ}C/W$
Maximum Surge Current Rating	8.3msec, Half Sine	I_{FSM}	5 Amps
Maximum Reverse Current	at rated V_{RRM}	I_R	0.2 μA
Maximum Reverse Recovery Time	$I_F = 0.5I_R; I_R = -I_{FAVM(oil)}; I_{RR} = -0.25I_R$	T_{RR}	70 ns
Maximum Reverse Energy Withstand	-	E_{RSM}	40 mJ
Typical Junction Capacitance	$f = 1Mhz, V_R = 0 V_{DC}$	C_j	2.6 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	-	-	0.195	49
Body Diameter	D	-	-	0.08	2.0
Lead Length	l	1.0	25.4	-	-
Lead Diameter	d	-	-	0.020	0.5

