

H. V. Controlled Avalanche Rectifiers - Axial Lead

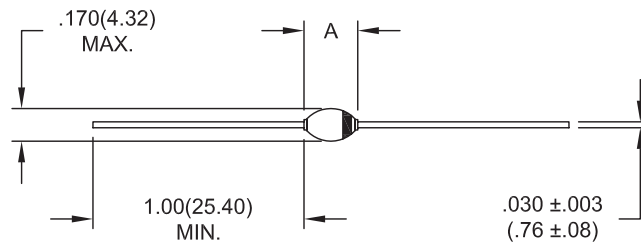
0.050A - 0.20A • 30ns - 3000ns

ELECTRICAL CHARACTERISTICS AND MAXIMUM RATINGS															
Part Number	Working Reverse Voltage (V _{rwm})	Average Rectified Current (I _o)		Reverse Current @ V _{rwm} (I _r)		Forward Voltage (V _f)		1 Cycle Surge Current t _p = 8.3ms (I _{fsm})	Repetitive Surge Current (I _{frm})	Reverse Recovery Time (3) (T _{rr})	Thermal Impedance θ_{J-L}			Junction Cap. @ 50VDC @ 1KHZ (C _j)	Non - Repetitive Peak Review Avalanche Energy (E _{rs} m)
		55°C (1)	100°C (2)	25°C	100°C	25°C		25°C	25°C	25°C	25°C	L=.000	L=.125	L=.250	25°C
	Volts	Amps	Amps	µA	µA	Volts	Amps	Amps	Amps	ns	°C/W	°C/W	°C/W	pF	mJ
XR25FF3	2500	0.200	0.100	0.5	20	10.0	0.200	18.00	1.50	30	5	12	21.5	4.0	30
XR50FF3	5000	0.100	0.050	0.5	20	16.0	0.100	9.00	0.75	30	5	12	21.5	3.0	60
XR100FF3	10000	0.050	0.025	0.5	20	32.0	0.050	4.50	0.30	30	5	12	21.5	2.0	120
XR25FF5	2500	0.200	0.100	0.5	20	10.0	0.200	15.0	1.50	50	5	12	21.5	4.0	30
XR50FF5	5000	0.100	0.050	0.5	20	16.0	0.100	7.50	0.75	50	5	12	21.5	3.0	60
XR100FF5	10000	0.050	0.025	0.5	20	32.0	0.050	3.75	0.40	50	5	12	21.5	2.0	120
XR25UFG	2500	0.200	0.100	0.5	20	8.0	0.200	15.0	3.00	70	5	12	21.5	4.0	30
XR50UFG	5000	0.100	0.050	0.5	20	14.0	0.100	7.50	1.50	70	5	12	21.5	3.0	60
XR100UFG	10000	0.050	0.025	0.5	20	25.0	0.050	3.75	0.75	70	5	12	21.5	2.0	120
XR25SG	2500	0.200	0.100	0.5	20	6.00	0.200	15.0	3.00	3000	5	12	21.5	4.0	30
XR50SG	5000	0.100	0.050	0.5	20	10.0	0.100	7.50	1.50	3000	5	12	21.5	3.0	60
XR100SG	10000	0.050	0.025	0.5	20	20.0	0.050	3.75	0.75	3000	5	12	21.5	2.0	120

(1)TL=55°C L=0.375" (2)TL=100°C L=0.375" (3)I_f=125mA, I_r=250mA, I_{rr}=63mA *Op.Temp.= -65°C to +175°C Stg.Temp.= -65°C to +200°C



Part	A
XR25(XXX)	.240(6.10) MAX.
XR50(XXX)	.280(7.11) MAX.
XR100(XXX)	.360(9.14) MAX.



Dimensions: In. (mm) • All temperatures are ambient unless otherwise noted. • Data subject to change without notice.



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