

New Jersey Semi-Conductor Products, Inc.

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2,000 V - 15,000 V Rectifiers

50 mA - 420 mA Forward Current

30 ns - 50 ns Recovery Time

X20FF3 - X150FF3

X20FF5 - X150FF5

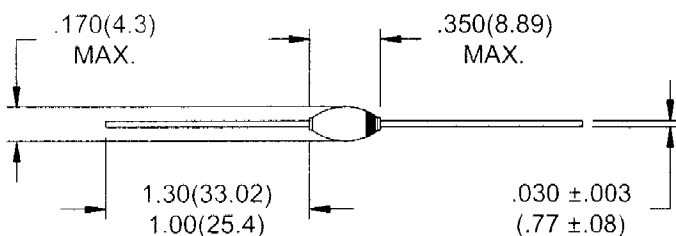
AXIAL LEADED
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ELECTRICAL CHARACTERISTICS AND MAXIMUM RATINGS

Part Number	Working Reverse Voltage (V _{rw})	Average Rectified Current		Reverse Current @ V _{rw}		Forward Voltage		1 Cycle Surge Current t _p =8.3ms	Repetitive Surge Current	Reverse Recovery Time (3) (t _{rr})	Thermal Impedance			Junction Cap. @50VDC @ 1kHz (C _j)
		(I _o)		(I _r)		(V _f)		(I _{fsm})	(I _{frm})		θ _{J-L}			
		55°C(1)	100°C(2)	25°C	100°C	25°C		25°C	25°C	25°C	L=.000	L=.125	L=.250	25°C
	Volts	mA	mA	µA	µA	Volts	mA	Amps	Amps	ns	°C/W	°C/W	°C/W	pF
X20FF3	2000	420	210	1.0	20	7.5	420	16.0	3.0	30	5	12	21.5	4.0
X50FF3	5000	150	75	1.0	20	12.5	150	10.0	1.0	30	5	12	21.5	3.0
X100FF3	10000	80	40	1.0	20	25.0	80	2.0	0.5	30	5	12	21.5	2.0
X150FF3	15000	50	25	1.0	20	37.5	50	1.6	0.3	30	5	12	21.5	2.0
X20FF5	2000	420	210	1.0	20	7.5	420	16.0	3.0	50	5	12	21.5	4.0
X50FF5	5000	150	75	1.0	20	12.5	150	10.0	1.0	50	5	12	21.5	3.0
X100FF5	10000	80	40	1.0	20	25.0	80	2.0	0.5	50	5	12	21.5	2.0
X150FF5	15000	50	25	1.0	20	37.5	50	1.6	0.3	50	5	12	21.5	2.0

(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



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Quality Semi-Conductors

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