

New Jersey Semi-Conductor Products, Inc.

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HIGH VOLTAGE RECTIFIERS 100ns-200ns Recovery • Axial Leaded • Hermetic

ELECTRICAL CHARACTERISTICS AND MAXIMUM RATINGS

Part Number	Working Reverse Voltage (V _{rrm})	Average Rectified Current (1) (I _o)		Reverse Current @ V _{rrm} (I _r)		Forward Voltage (V _f)		1 Cycle Surge Current t _p =8.3ms (I _{fsm})	Repetitive Surge Current (I _{frm})	Reverse Recovery Time (T _{rr})		Thermal Impedance (J-L)			Junction Cap. @ 50VDC @ 1kHz (C _j)
		55°C	100°C	25°C	100°C	25°C	25°C	25°C	25°C	25°C	25°C	°C/W			pF
	Volts	mA	mA	µA	µA	Volts	mA	Amps	Amps	ns	Cond.	D=0	D=125	D=250	
M25UFG	2500	100	50	0.1	10	7.0	25	8	1.3	100	I _f =12.5mA	18	30	50.0	2.0
M50UFG	5000	50	25	0.1	10	9.0	25	4	0.8	100	I _r =25mA	18	30	50.0	1.0
M100UFG	10000	25	12	0.1	10	14.0	25	2	0.4	100	I _m =6.3mA	18	30	50.0	0.5
M160UFG	16000	10	5	0.1	10	35.0	10	1	0.2	100		33	45	65.0	0.5
X25UFG	2500	250	125	1.0	20	7.0	100	15	3.0	100	I _f =125mA	5	12	21.5	4.0
X50UFG	5000	150	75	1.0	20	9.0	100	10	2.0	100	I _r =250mA	5	12	21.5	3.0
X100UFG	10000	100	50	1.0	20	14.0	100	5	1.0	100	I _m =63mA	5	12	21.5	2.0
X150UFG	15000	50	25	1.0	20	22.0	100	3	0.5	100		5	12	21.5	2.0
X200UFG	20000	25	13	1.0	20	30.0	50	2	0.5	100		5	12	21.5	2.0
Z25UFG	2500	1500	1000	1.0	25	7.5	2000	60	10.0	100	I _f =0.5A	3	6	12.0	20.0
Z50UFG	5000	1000	500	1.0	25	10.5	1000	40	8.0	100	I _r =1.0A	3	6	12.0	16.0
Z100UFG	10000	500	250	1.0	25	14.0	600	25	5.0	100	I _{rr} =0.25A	3	6	12.0	8.0
Z150UFG	15000	300	150	1.0	25	22.0	300	10	2.0	100		3	6	12.0	5.0
M25FG	2500	100	50	0.1	10	6.0	25	8	1.3	200	I _f =12.5mA	18	30	50.0	2.0
M50FG	5000	50	25	0.1	10	8.0	25	4	0.8	200	I _r =25mA	18	30	50.0	1.0
M100FG	10000	25	12	0.1	10	13.0	25	2	0.4	200	I _m =6.3mA	18	30	50.0	0.5
M160FG	16000	10	5	0.1	10	35.0	10	1	0.2	200		33	45	65.0	0.5
X25FG	2500	250	125	1.0	20	6.0	100	15	3.0	200	I _f =125mA	5	12	21.5	4.0
X50FG	5000	150	75	1.0	20	8.0	100	10	2.0	200	I _r =250mA	5	12	21.5	3.0
X100FG	10000	100	50	1.0	20	13.0	100	5	1.0	200	I _m =63mA	5	12	21.5	2.0
X150FG	15000	50	25	1.0	20	20.0	100	3	0.5	200		5	12	21.5	2.0
X200FG	20000	25	13	1.0	20	28.0	50	2	0.5	200		5	12	21.5	2.0
Z25FG	2500	1500	1000	1.0	25	6.5	2000	60	10.0	200	I _f =0.5A	3	6	12.0	20.0
Z50FG	5000	1000	500	1.0	25	9.5	1000	40	8.0	200	I _r =1.0A	3	6	12.0	16.0
Z100FG	10000	500	250	1.0	25	13.0	600	25	5.0	200	I _{rr} =0.25A	3	6	12.0	8.0
Z150FG	15000	300	150	1.0	25	20.0	300	10	2.0	200		3	6	12.0	5.0

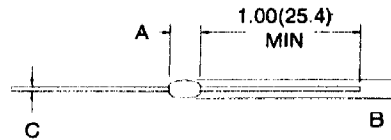
(1) @ T_L = -375° • Operating Temp. = -65°C to +175°C Storage Temp. = -65°C to +200°C



NJ Semi-Conductors reserves the right to change test conditions, parameters limits and package dimensions without notice information furnished by NJ Semi-Conductors is believed to be both accurate and reliable at the time of going to press. However NJ Semi-Conductors assumes no responsibility for any errors or omissions discovered in its use. NJ Semi-Conductors encourages customers to verify that datasheets are current before placing orders.

Quality Semi-Conductors

	A	B	C
M25(XXX) M50(XXX) M100(XXX)	0.300(7.62) MAX	0.130(3.3) MAX	0.020±0.003 (0.50±0.08)
M160(XXX)	0.350(7.62) MAX	0.130(3.3) MAX	0.020±0.003 (0.50±0.08)
X25(XXX) X50(XXX) X100(XXX)	0.350(8.89) MAX	0.170(4.3) MAX	0.030±0.003 (0.77±0.08)
X150(XXX)	0.360(9.14) MAX	0.170(4.3) MAX	0.030±0.003 (0.77±0.08)
X200(XXX)	0.380(9.65) MAX	0.170(4.3) MAX	0.030±0.003 (0.77±0.08)
Z25(XXX) Z50(XXX)	0.350(8.89) MAX	0.215(5.5) MAX	0.040±0.003 (1.02±0.08)
Z100(XXX)	0.400(10.16) MAX	0.215(5.5) MAX	0.040±0.003 (1.02±0.08)
Z150(XXX)	0.450(11.43) MAX	0.215(5.5) MAX	0.040±0.003 (1.02±0.08)



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