

TECHNICAL DATA
DATA SHEET 5077, REV. B

SJ SX SV

Ultrafast Recovery Rectifier

- Hermetic, non-cavity glass package
- Metallurgically bonded
- Operating and Storage Temperature: -65°C to +175°

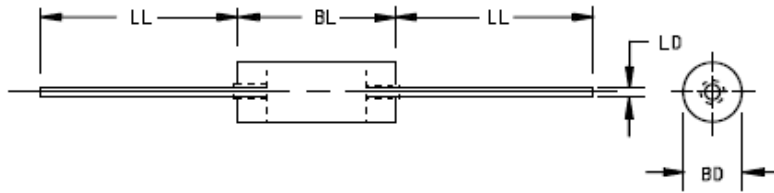
MAX. RATINGS / ELECTRICAL CHARACTERISTICS All ratings are at $T_A = 25^\circ\text{C}$ unless otherwise specified.

Rating	Symbol	Condition	Max	Units
WORKING PEAK REVERSE VOLTAGE 1N6626, U, US 1N6627, U, US 1N6628, U, US 1N6629, U, US 1N6630, U, US 1N6631, U, US	V_{RWM}		200 400 600 800 900 1000	Volts
AVERAGE RECTIFIED FORWARD CURRENT 1N6626 thru 1N6628 1N6629 thru 1N6631	I_o	$T_L = 75^\circ\text{C}$	2.3 1.8	Amps
AVERAGE RECTIFIED FORWARD CURRENT 1N6626U, US thru 1N6628U, US 1N6629U, US thru 1N6631U, US	I_o	$T_{EC} = 110^\circ\text{C}$	4.0 2.8	Amps
PEAK FORWARD SURGE CURRENT 1N6626, U, US thru 1N6630, U, US 1N6631, U, US	I_{FSM}	$T_p = 8.3\text{ms}$	75 60	A(pk)
MAXIMUM REVERSE CURRENT 1N6626, U, US thru 1N6630, U, US 1N6631, U, US	$I_R @ V_{RWM}$	$T_j = 25^\circ\text{C}$	2.0 4.0	μAmps
MAXIMUM REVERSE CURRENT 1N6626, U, US thru 1N6630, U, US 1N6631, U, US	$I_R @ V_{RWM}$	$T_j = 150^\circ\text{C}$	500 600	μAmps
MAX. PEAK FORWARD VOLTAGE (PULSED) 1N6626, U, US thru 1N6628, U, US 1N6629, U, US to 1N6630, U, US 1N6631, U, US	V_{FM}	$I_F = 4\text{A}$ $I_F = 3\text{A}$ $I_F = 2\text{A}$	1.50 1.70 1.95	Volts
PEAK RECOVERY CURRENT 1N6626, U, US thru 1N6628, U, US 1N6629, U, US to 1N6630, U, US 1N6631, U, US	I_{RM}	$I_F = 2\text{A},$ $100\text{A}/\mu$	3.5 4.2 5.0	A(pk)
MAXIMUM REVERSE RECOVERY TIME 1N6626, U, US thru 1N6628, U, US 1N6629, U, US to 1N6630, U, US 1N6631, U, US	T_{rr}	$I_F = 0.5\text{A}$ $I_{RM} = 1.0\text{A}$	30 50 60	ns
FORWARD RECOVERY VOLTAGE 1N6626, U, US thru 1N6628, U, US 1N6629, U, US to 1N6630, U, US 1N6631, U, US	V_{FRM}	$I_F = 1\text{A}$ $t_r = 12\text{ns}$	8 12 20	Volts
THERMAL RESISTANCE (Axial) 1N6626 thru 1N6631	$R\theta_{JL}$	$L = .375$	22	$^\circ\text{C}/\text{W}$
THERMAL RESISTANCE (MELF) 1N6626U, US thru 1N6631U, US	$R\theta_{JC}$	$L = 0$	6.5	$^\circ\text{C}/\text{W}$

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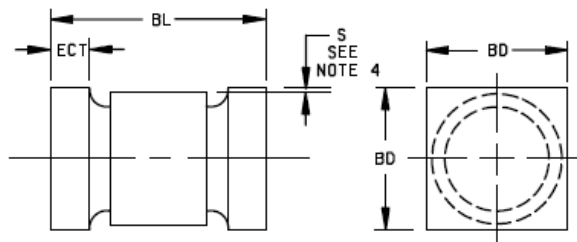
MECHANICAL DIMENSIONS In Inches / (mm)

AXIAL



Ltr	Dimensions				
	Inches		Millimeters		Notes
	Min	Max	Min	Max	
BD	.115	.137	2.92	3.48	4
BL	.130	.300	3.30	7.62	3
LD	.037	.042	0.94	1.07	3
LL	.900	1.300	22.86	33.02	

MELF



Ltr	Dimensions			
	1N6626U, US through 1N6631U, US			
	Inches		Millimeters	
	Min	Max	Min	Max
BL	.200	.225	5.08	5.72
BD	.137	.148	3.48	3.76
ECT	.019	.028	0.48	0.71
S	.003		0.08	

SENSITRON **SEMICONDUCTOR**

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