DIGITRON SEMICONDUCTORS

1N4156, 1N4157, 1N4453, 1N4829, 1N4830, 1N5179 STABISTORS
MPD100 – MPD400A TIGHT TOLERANCE

Available Non-RoHS (standard) or RoHS compliant (add PBF suffix).
Available as "HR" (high reliability) screened per MIL-PRF-19500, JANTX level. Add "HR" suffix to base part number.

MAXIMUM RATINGS

Power Rating:	500 mW
Power Derating:	4.0 mW/°C above 50°C
Junction & Storage Temperatures:	-65°C to 175°C

ELECTRICAL CHARACTERISTICS

Type	Maximum Reverse Current I_R			Minimum Reverse Breakdown Voltage V_{BR}(VOLTS) @ 5 µA	Stored Charge @ 1.00mA Q_S (pC)		Maximum Capacitance C(pF) @ 0 VOLTS	Number of p-n Junctions
	25°C nA	150°C µA	@ V_R VOLTS		Min	Max		
1N4156	50	50	20	30	50	500	25	2
1N4157	50	50	20	30	50	500	20	3
1N4453	50	50	20	30	50	500	30	1
1N4829	100	25 @ 100°C	20	30 @ 100µA	--	--	25	2
1N4830	100	25 @ 100°C	20	30 @ 100µA	--	--	20	3
1N5179	50	--	20	30	50	500	20	4
MPD100	30	50	30	30	75	300	30	1
MPD100A	30	50	30	30	800*	--	40	1
MPD200	30	50	30	30	75	400	30	2
MPD200A	30	50	30	30	800*	--	40	2
MPD300	30	50	30	60	75	400	30	3
MPD300A	30	50	30	60	800*	--	40	3
MPD400	30	50	30	90	60	300	30	4
MPD400A	30	50	30	90	800*	--	40	4

*Q_S @ 10mA

Type	Forward Voltage V_F (VOLTS) at I_F @ 25°C									
	I_F .010mA		I_F 0.10mA		I_F 1.00mA		I_F 10.0mA		I_F 100.0mA	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
1N4156	0.740	1.090	0.970	1.220	1.210	1.410	1.380	1.580	1.540	1.840
1N4157	1.190	1.540	1.520	1.770	1.850	2.050	2.120	2.320	2.360	2.660
1N4453	--	--	0.510	0.630	0.600	0.710	0.690	0.800	0.800	0.920
1N4829	--	--	0.840	1.250	0.990	1.440	1.160	1.610	1.350	1.870
1N4830	--	--	1.350	1.800	1.630	2.080	1.900	2.350	2.150	2.690
1N5179	--	--	1.800	2.500	2.200	2.800	2.600	3.200	3.000	3.700
MPD100	0.450	0.500	0.535	0.590	0.618	0.677	0.700	0.765	0.790	0.880
MPD100A	0.450	0.500	0.535	0.590	0.618	0.677	0.700	0.765	0.790	0.880
MPD200	0.900	1.000	1.050	1.160	1.220	1.340	1.390	1.540	1.600	1.760
MPD200A	0.900	1.000	1.050	1.160	1.220	1.340	1.390	1.540	1.600	1.760
MPD300	1.400	1.540	1.620	1.780	1.840	2.030	2.100	2.330	2.400	2.650
MPD300A	1.400	1.540	1.620	1.780	1.840	2.030	2.100	2.330	2.400	2.650
MPD400	1.820	2.010	2.140	2.360	2.470	2.710	2.800	3.070	3.160	3.520
MPD400A	1.820	2.010	2.140	2.360	2.470	2.710	2.800	3.070	3.160	3.520

144 Market Street
Kenilworth NJ 07033 USA

phone +1.908.245-7200
fax +1.908.245-0555

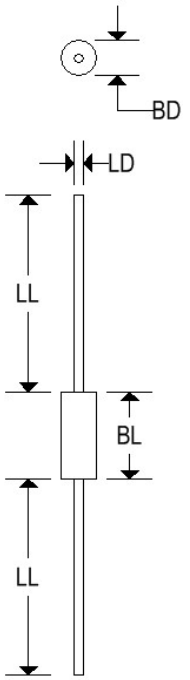
sales@digitroncorp.com
www.digitroncorp.com

D I G I T R O N S E M I C O N D U C T O R S

1N4156, 1N4157, 1N4453, 1N4829, 1N4830, 1N5179 **STABISTORS**
MPD100 – MPD400A TIGHT TOLERANCE

MECHANICAL CHARACTERISTICS

Case:	Hermetically sealed glass, DO-35
Thermal Resistance:	200°C/W Typical
Polarity:	Cathode band



	DO-35			
	Inches		Millimeters	
	Min	Max	Min	Max
BD	0.055	0.090	1.400	2.290
BL	0.120	0.200	3.050	5.080
LD	0.018	0.022	0.460	0.560
LL	1.000	1.500	25.400	38.100

144 Market Street
Kenilworth NJ 07033 USA

phone +1.908.245-7200
fax +1.908.245-0555

sales@digitroncorp.com
www.digitroncorp.com