SEMICONDUCTOR

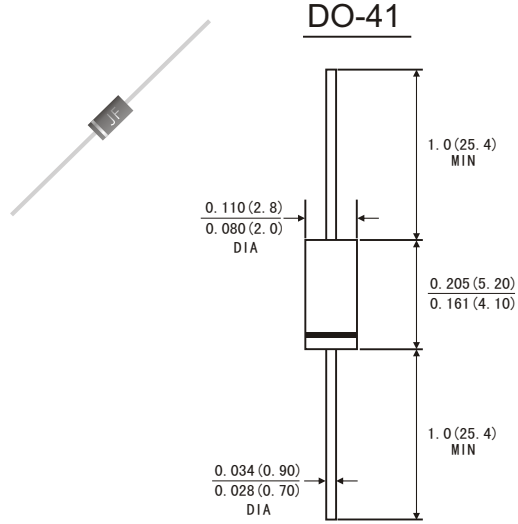
1N5921 THRU 1N5956

1.5W SILICON PLANAR ZENER DIODES

FEATURES

- Low leakage, low zener impedance at low current
- Maximum power dissipation of 1.5W is ideally suited for stabilized power supply, etc.
- High temperature soldering guaranteed:260°C/10 seconds at terminals

DO-41



Dimensions in inches and (millimeters)

MECHANICAL DATA

- *Case*: DO-41 molded plastic,R-1 and SMA package are upon request
- Terminals: Plated axial leads, solderable per MIL-STD-750,method 2026
- *Polarity*: Color band denotes cathode end

ABSOLUTE MAXIMUM RATINGS(LIMITING VALUES) (T_A=25℃)

	Symbols	*Value*	*Units*
Zener current see table "Characteristics"			
Power dissipation	P_{tot}	1.5	W
Junction temperature	T_J	200	℃
Storage temperature range	T_{STG}	-65 to+200	℃
1) Valid provided that a distance of 8mm from case is kept at ambient temperature			

ELECTRICAL CHARACTERISTICS (T_A=25℃)

	Symbols	*Min*	*Typ*	*Max*	*Units*
Thermal resistance junction to ambient	$R_{\theta JA}$			65 [1]	℃/W
Forward voltage at I_F=200mA	V_F			1.5	V

1) Valid provided that a distance of 8mm from case is kept at ambient temperature

1N5921... PLASTIC PACKAGE ZENER DIODES

Electrical characteristics (T_A=25°C)								
Type	Nominal Zener voltage		Maximum Zener impedance			Maximum reverse leakage current		Max regulator zener current
	V_Z@I_{ZT}	I_{ZT}	Z_{ZT}@I_{ZT}	Z_{ZX}@I_{ZX}	I_{ZX}	I_R@V_R	V_R	I_{ZM}@50°C
	V	mA	Ω	Ω	mA	uA	V	mA
1N5921	6.8	55.1	2.5	200	1.0	5.0	5.2	220
1N5922	7.5	50.0	3.0	400	0.5	5.0	6.8	200
1N5923	8.2	45.7	3.5	400	0.5	5.0	6.5	182
1N5924	9.1	41.2	4.0	500	0.5	5.0	7.0	164
1N5925	10	37.5	4.5	500	0.25	5.0	8.0	150
1N5926	11	34.1	5.5	550	0.25	1.0	8.4	136
1N5927	12	31.2	6.5	550	0.25	1.0	9.1	125
1N5928	13	28.8	7.0	550	0.25	1.0	9.9	115
1N5929	15	25.0	9.0	600	0.25	1.0	11.4	100
1N5930	16	23.4	10.0	600	0.25	1.0	12.2	93
1N5931	18	20.8	12.0	650	0.25	1.0	13.7	83
1N5932	20	18.7	14.0	650	0.25	1.0	15.2	75
1N5933	22	17.0	17.5	650	0.25	1.0	16.7	68
1N5934	24	15.6	19	700	0.25	1.0	18.2	62
1N5935	27	13.9	23	700	0.25	1.0	20.6	55
1N5936	30	12.5	26	750	0.25	1.0	22.8	50
1N5937	33	11.4	33	800	0.25	1.0	25.1	45
1N5938	36	10.4	38	850	0.25	1.0	27.4	41
1N5939	39	9.6	45	900	0.25	1.0	29.7	38
1N5940	43	8.7	53	950	0.25	1.0	32.7	34
1N5941	47	8.0	67	1000	0.25	1.0	35.8	31
1N5942	51	7.3	70	1100	0.25	1.0	38.8	29
1N5943	56	6.7	86	1300	0.25	1.0	42.6	26
1N5944	62	6.0	100	1500	0.25	1.0	47.1	24
1N5945	68	5.5	120	1700	0.25	1.0	51.7	22
1N5946	75	5.0	140	2000	0.25	1.0	56.0	20
1N5947	82	4.6	160	2500	0.25	1.0	62.2	18
1N5948	91	4.1	200	3000	0.25	1.0	69.2	16
1N5949	100	3.7	250	3100	0.25	1.0	76.0	15
1N5950	110	3.4	300	4000	0.25	1.0	83.6	13
1N5951	120	3.1	380	4500	0.25	1.0	91.2	12
1N5952	130	2.9	450	5000	0.25	1.0	98.8	11
1N5953	150	2.5	600	6000	0.25	1.0	114.0	10
1N5954	160	2.3	700	6500	0.25	1.0	121.6	9
1N5955	180	2.1	900	7000	0.25	1.0	136.8	8
1N5956	200	1.9	1200	8000	0.25	1.0	152.0	7

Note:

1.Standard zener voltage tolerance available is ±20%.Add suffix “A” is for ±10% tolerance. Add suffix “B” is for ±5%.
2.For surface mounted package,the type name is SMA59XX.