



DATA SHEET

1N4151W

SURFACE MOUNT SWITCHING DIODES

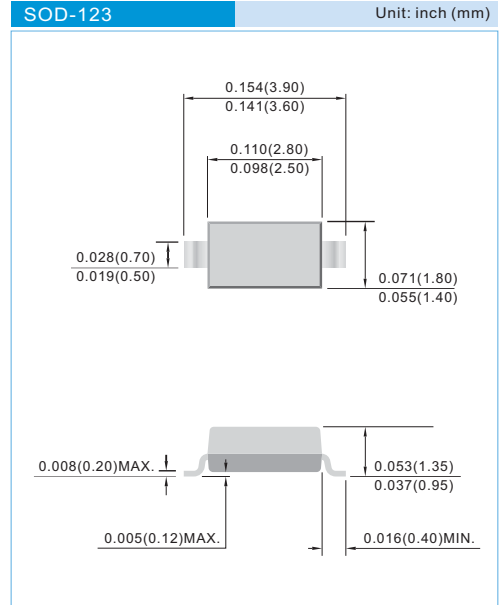
VOLTAGE 50 Volts **POWER** 500 mWatts

FEATURES

- Fast switching Speed
- Electrically Identical to Standard JEDEC
- High Conductance
- Surface Mount Package Ideally Suited for Automatic Insertion
- Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

Case: SOD-123 plastic case.
 Terminals : Solderable per MIL-STD-750, Method 2026
 Standard packaging: 8mm tape
 Weight: approximately 0.01g

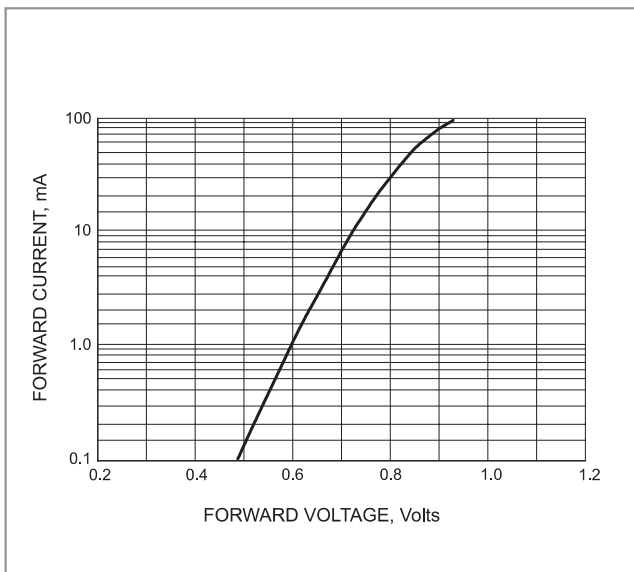


MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_J = 25°C unless otherwise noted)

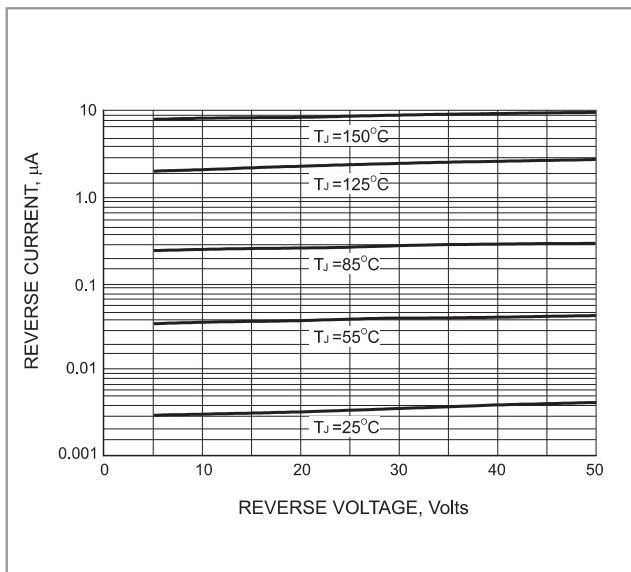
PARAMETER	SYMBOL	1N4151W	UNITS
Marking Code		A5	
Reverse Voltage	V _R	50	V
Peak Reverse Voltage	V _{RM}	75	V
Maximum RMS Voltage	V _{RMS}	35	V
Maximum DC Blocking Voltage	V _{DC}	50	V
Maximum Average Forward Current at T _a =25°C	I _{AV}	150	mA
Peak Forward Surge Current, 1.0s single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	0.5	A
Power Dissipation Derate Above 25°C	P _{TOT}	500	mW
Maximum Forward Voltage	V _F	1.0@0.01A	V
Maximum DC Reverse Current at Rated DC Blocking Voltage T _J = 25°C	I _R	0.05	uA
Typical Junction Capacitance(Notes1)	C _J	2	pF
Maximum Reverse Recovery (Notes2)	T _{RR}	2	ns
Typical Thermal Resistance	R _{θJA}	400	°C / W
Storage Temperature Range	T _J	-55 to + 150	°C

NOTE:

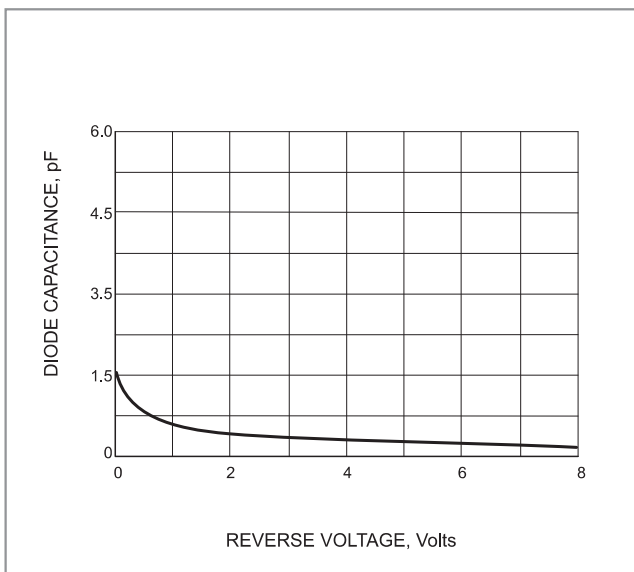
1. C_J at V_R=0, f=1MHZ
2. From I_F=10mA to I_R=1mA, V_R=6Volts, R_L=100Ω



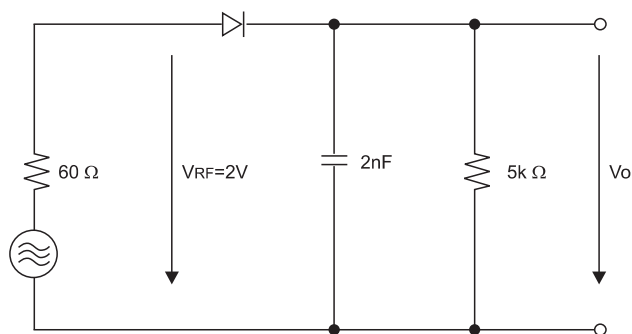
FORWARD VOLTAGE



LEAKAGE CURRENT



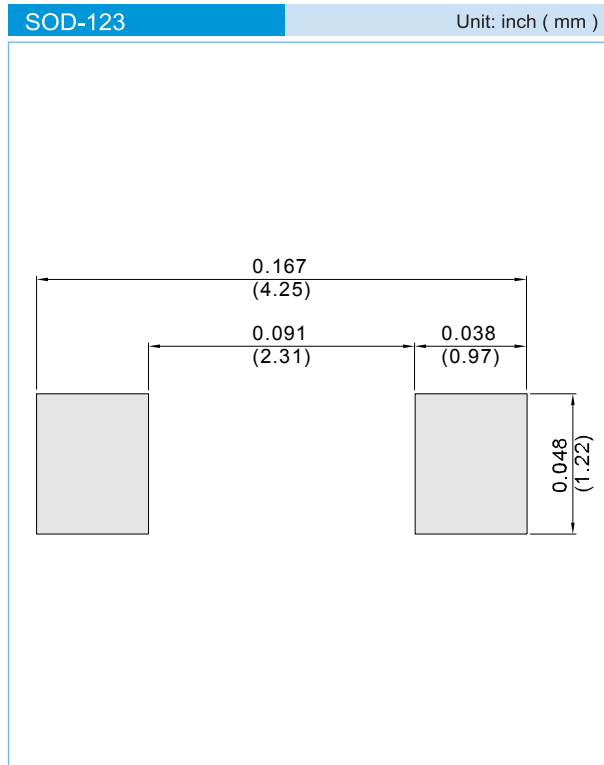
TYPICAL CAPITANCE



RECTIFICATION EFFICIENCY MEASUREMENT CIRCUIT



MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
 - T/R - 10K per 13" plastic Reel
 - T/R - 3K per 7" plastic Reel



1N4151W

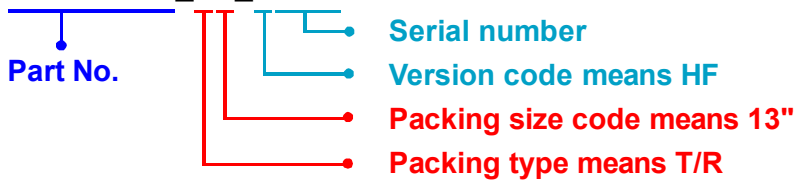
Part No_packing code_Version

1N4151W_R1_00001

1N4151W_R2_00001

For example :

RB500V-40_R2_00001



Packing Code XX				Version Code XXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			



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