

自贡兴川光电有限公司

Zigong xingchuan photoelectric co., ltd

元器件样品承认书

样品名称	开关二极管			
规格型号	1N4148, 100V, 150mA, 4.0NS, SOP-123 PANJIT			
物料编码	03.03.0002			
生产厂家	PANJIT			
样品数量	10PCS			
实验目的	新材料测试确认			
确认次数	首次确认			
部门	研发部	品质部	工程部	采购部
签字确认	刘虎 2019.6.28	陈攀	刘洪	李志军
备注				
结论	可以使用			
批准	刘永春		日期	2019.7.1

表格编号：




扫描全能王 创建

自贡兴川光电有限公司

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样品测试报告

样品名称	开关二极管	使用产品	ZSCI500逆控一体机
样品规格	1N4148W (PANJIT)	样品数量	100 pcs
送样单位	研发部	送样日期	2019年6月24日
测试地点	汇东股份513室	环境温湿度	24℃ 73%RH
物料说明	开关二极管1N4148W (PANJIT), 100V, 150mA, 4.0ns, SOD-123		
物料分类	<input type="checkbox"/> 五金类 <input checked="" type="checkbox"/> 电子类 <input type="checkbox"/> 包材类 <input type="checkbox"/> 塑料类 <input type="checkbox"/> 套件类 <input type="checkbox"/> 辅料类 <input type="checkbox"/> 其他		
检验内容			
尺寸	尺寸符合规格书要求, 详细测试数据: 2.82mm×1.85mm×1.1mm 检验员: 刘俊 日期 2019.6.28		
外观、颜色	管身为黑色, 管脚为银白色, 外观颜色符合规格书要求 检验员: 刘俊 日期 2019.6.28		
装配	安装牢固可靠, 无抢位, 上锡度良好 检验员: 刘俊 日期 2019.6.28		
性能	反向电压VR: 75V; 最大反向电压VRM: 100V; 正向电压VF: 0.852V (IF=50mA) 1.025mA (IF=150mA) 检验员: 刘俊 日期 2019.6.28		
材质	 检验员: 刘俊 日期 2019.6.28		
其他	符合ZSCI500样机设计要求 符合电阻规格书要求 检验员: 刘俊 日期 2019.6.28		
检验结果	<input checked="" type="checkbox"/> 合格 <input type="checkbox"/> 不合格 <input type="checkbox"/> 其他		
改善要求			
物料图片 (实物)			

表格编号:



扫描全能王 创建

1N4148W

SURFACE MOUNT SWITCHING DIODES

VOLTAGE 100 Volt **POWER** 410mWatt

SOD-123

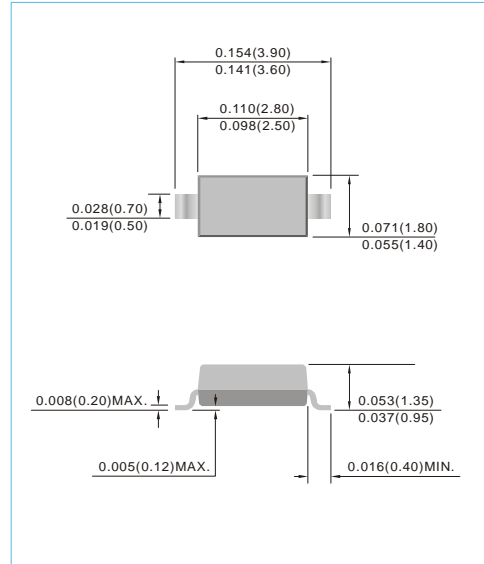
Unit : inch(mm)

FEATURES

- Fast switching Speed.
- Electrically Identical to Standard JEDEC
- High Conductance
- Surface Mount Package Ideally Suited for Automatic Insertion.
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: SOD-123 plastic case.
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0003 ounce, 0.0103 gram
- Marking Code: A2



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

PARAMETER	SYMBOL	VALUE	UNITS
Reverse Voltage	V _R	75	V
Peak Reverse Voltage	V _{RM}	100	V
RMS Voltage	V _{RMS}	50	V
Maximum DC Blocking Voltage	V _{DC}	75	V
Maximum Average Forward Current at T _A = 25°C	I _{F(AV)}	200	mA
Peak Forward Surge Current, 0.001ms	I _{FSM}	4	A
Power Dissipation Derate Above 25°C	P _{TOT}	410	mW
Maximum Forward Voltage	V _F	0.715@1mA 0.855@10mA 1@50mA 1.25@150mA	V
Maximum DC Reverse Current at Rated DC Blocking Voltage T _J = 25°C	I _R	0.025@20V 2.5@75V	μA
Junction Capacitance (Notes 1)	C _J	1.5	pF
Maximum Reverse Recovery Time (Notes 2)	t _{rr}	4	ns
Typical Thermal Resistance (Notes 3)	R _{θJA} R _{θJC} R _{θJL}	450 257 329	°C / W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150	°C

NOTE :

- 1.CJ at V_R=0, f=1MHZ
- 2.From I_F=10mA to I_R=1mA, V_R=6Volts, R_L=100Ω
- 3.Mounted on a FR4 PCB, single-sided copper, with 100cm² copper pad area.

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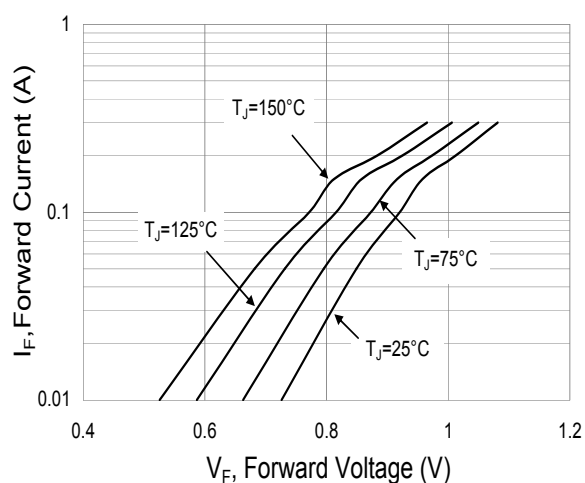


Fig. 1 Typical Forward Characteristics

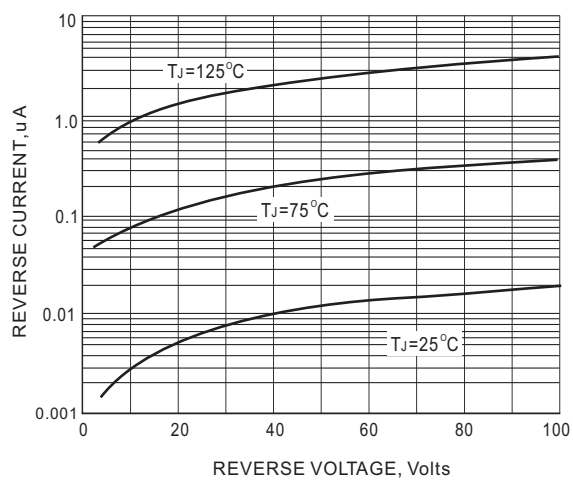


FIG. 2 TYPICAL REVERSE CHARACTERISTICS

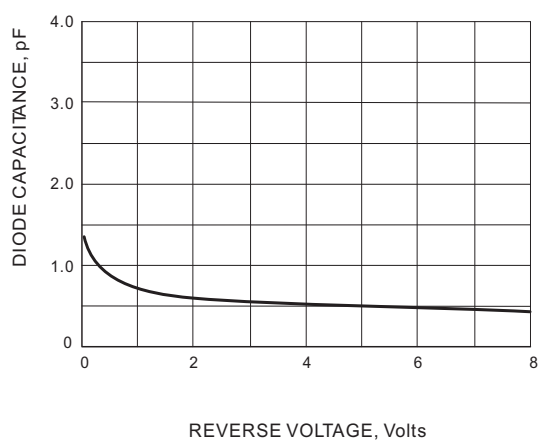


FIG. 3 TYPICAL JUNCTION CAPACITANCE

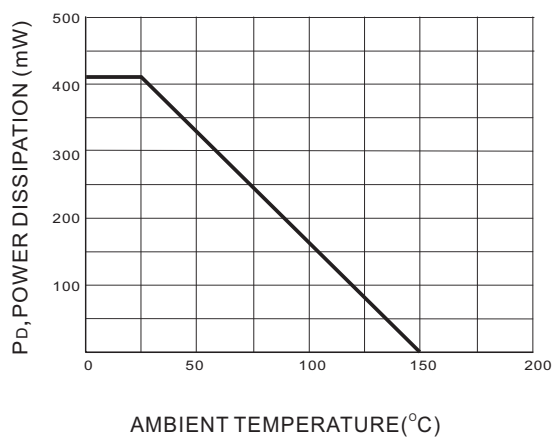
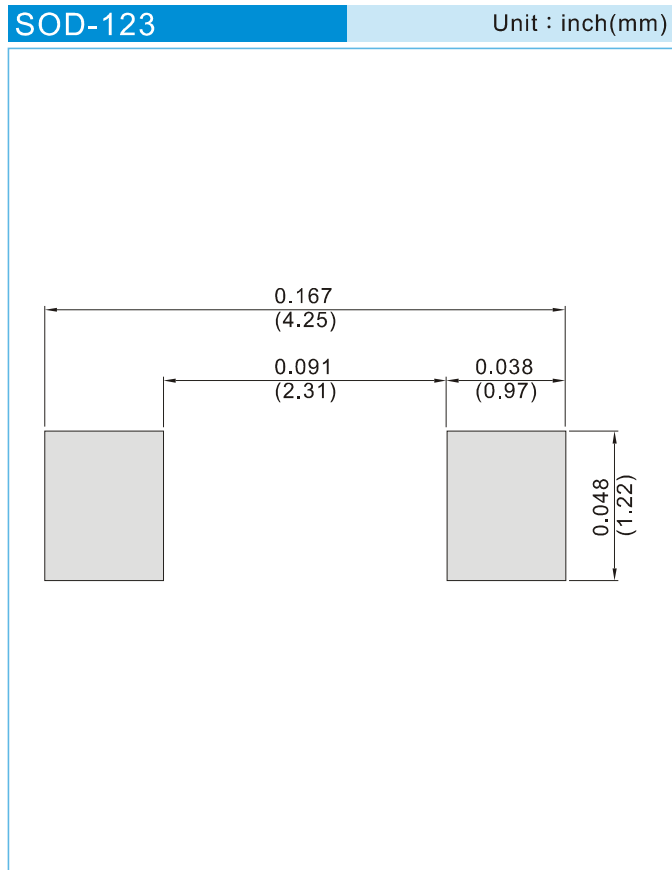


FIG. 4 POWER DERATING CURVE

1N4148W

MOUNTING PAD LAYOUT



ORDER INFORMATION

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

1N4148W

Part No_packing code_Version

1N4148W_R1_00001

1N4148W_R2_00001

For example :

RB500V-40_R2_00001

Part No.

Serial number

Version code means HF

Packing size code means 13"

Packing type means T/R

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			



1N4148W

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