

Features

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ Glass passivated chip junction
- ◆ Built-in strain relief, ideal for automated placement
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed: 260°C/10 seconds at terminals
- ◆ RoHS Compliant
- ◆ Halogen & Pb Free



SMA



Polarity: Color band denotes cathode end

极性：色带表示阴极端

特征

- ◆ 塑料包装，保险商实验室易燃性分类 94V-0
- ◆ 玻璃钝化结
- ◆ 内置应力消除，非常适合自动放置
- ◆ 高正向浪涌电流能力
- ◆ 可靠的高温焊接：接触端 260°C/10 秒
- ◆ 符合 RoHS 标准
- ◆ 无卤素和无铅

Device Type 器件型号	Device Marking 器件印字
US1M-TP-CN	US1M

Application 应用

- ◆ Switched Circuit 开关电路
- ◆ High frequency rectifier 高频整流
- ◆ Switching devices for high-frequency inverter devices
高频逆变装置的开关器件

ORDERING INFORMATION 订购信息

Device Type 器件型号	Package 封装	Reel Size 卷盘尺寸	SPQ 标准包装量	MPQ 最小包装数量	MOQ 最小订购数量
US1M-TP-CN	SMA	13 Inch 英寸	5000/Reel 卷	10000/Box 盒	100000/Carton 箱

Maximum Ratings ($T_A = 25^\circ\text{C}$ unless otherwise noted)

最大额定值(如无另外标识, 环境温度=25°C)

Parameter 参数	Symbol 符号	Note	US1M-TP-CN	Unit 单位
Maximum repetitive peak reverse voltage 最大重复峰值反向电压	V_{RRM}	/	1000	V
Maximum RMS Voltage 最大反向有效电压	V_{RMS}	/	700	V
Maximum DC Blocking Voltage 最大直流截止电压	V_{DC}	/	1000	V
Maximum Average Forward Rectified Current 最大正向平均整流电流	$I_{(AV)}$	/	1.0	A
Peak Forward Surge Current 峰值正向浪涌电流	I_{FSM}	JEDEC method	30	A
Maximum Instantaneous Forward Voltage @1.0A 最大瞬时正向电压@1.0A	V_F	/	1.7	V
Maximum DC Reverse Current rated DC Blocking Voltage per element 在额定直流截止电压下的 最大直流反向电流	I_R	$T_A = 25^\circ\text{C}$	5.0	μA
		$T_A = 125^\circ\text{C}$	100	
Maximum Reverse Recovery Time 反向恢复时间	t_{rr}	$I_F = 0.5\text{A}$ $I_R = 1.0\text{A}$ $I_{RR} = 0.25\text{A}$	100	nS
Operating Junction Temperature 工作结点温度	T_J	/	55 to +150	$^\circ\text{C}$
Storage Temperature Range 储存温度范围	T_{STG}	/	55 to +150	$^\circ\text{C}$
Typical thermal resistance 典型热阻	$R_{\theta JA}$	P.C.B. mounted with 0.2x0.2" (5.0x5.0mm) copper pad areas	88	$^\circ\text{C}/\text{W}$
Typical junction capacitance 典型结电容	C_j	Measured at 1MHz and applied reverse voltage of 4.0V D.C	15	pF

Characteristic diagram 特性图

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

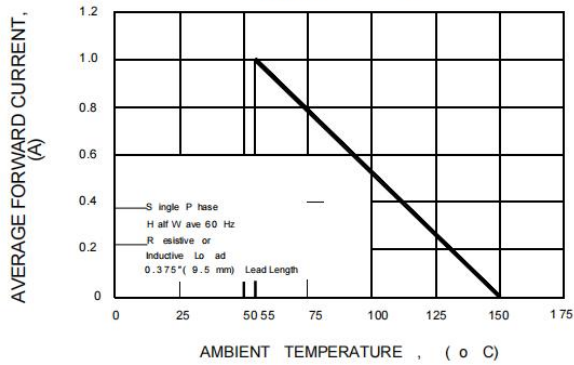


FIG. 2 - MAXIMUM NON- REPETITIVE PEAK FORWARD SURGE CURRENT

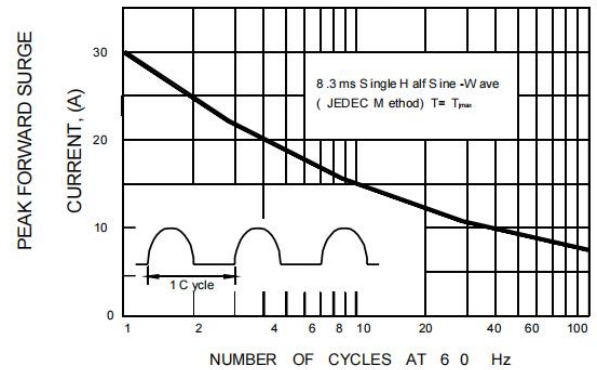


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

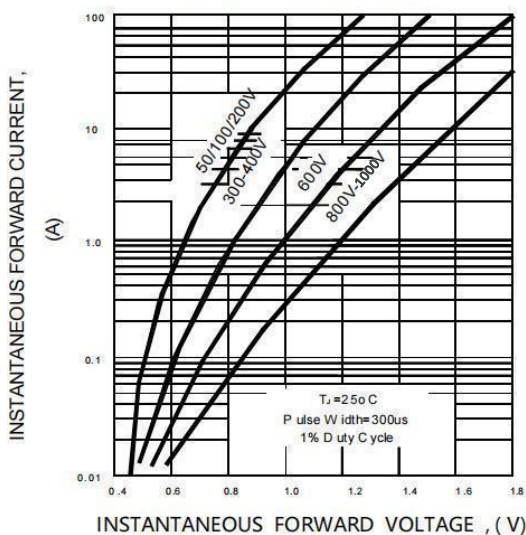


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

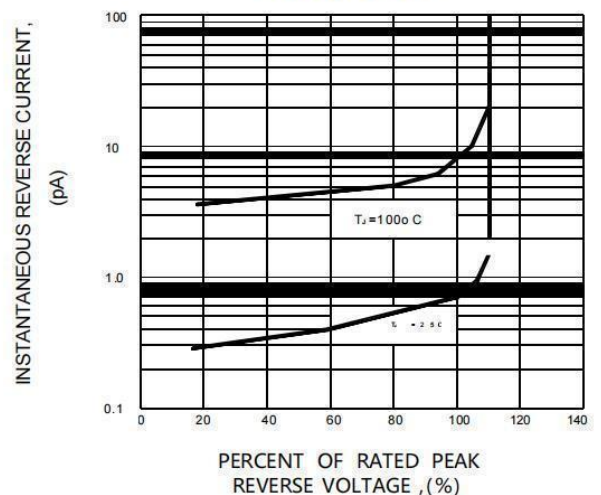


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

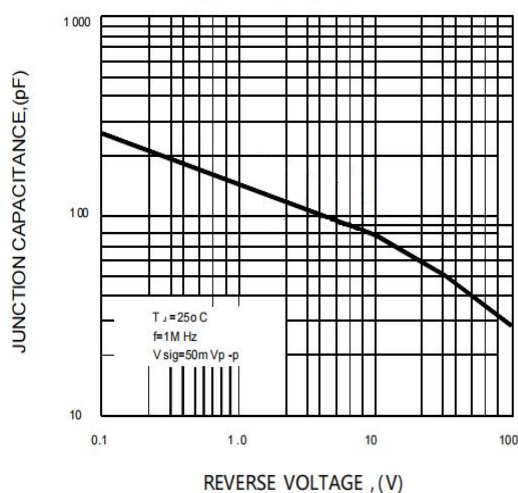
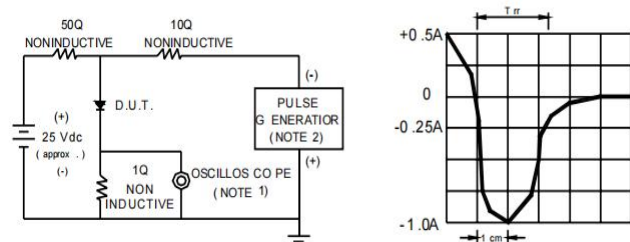
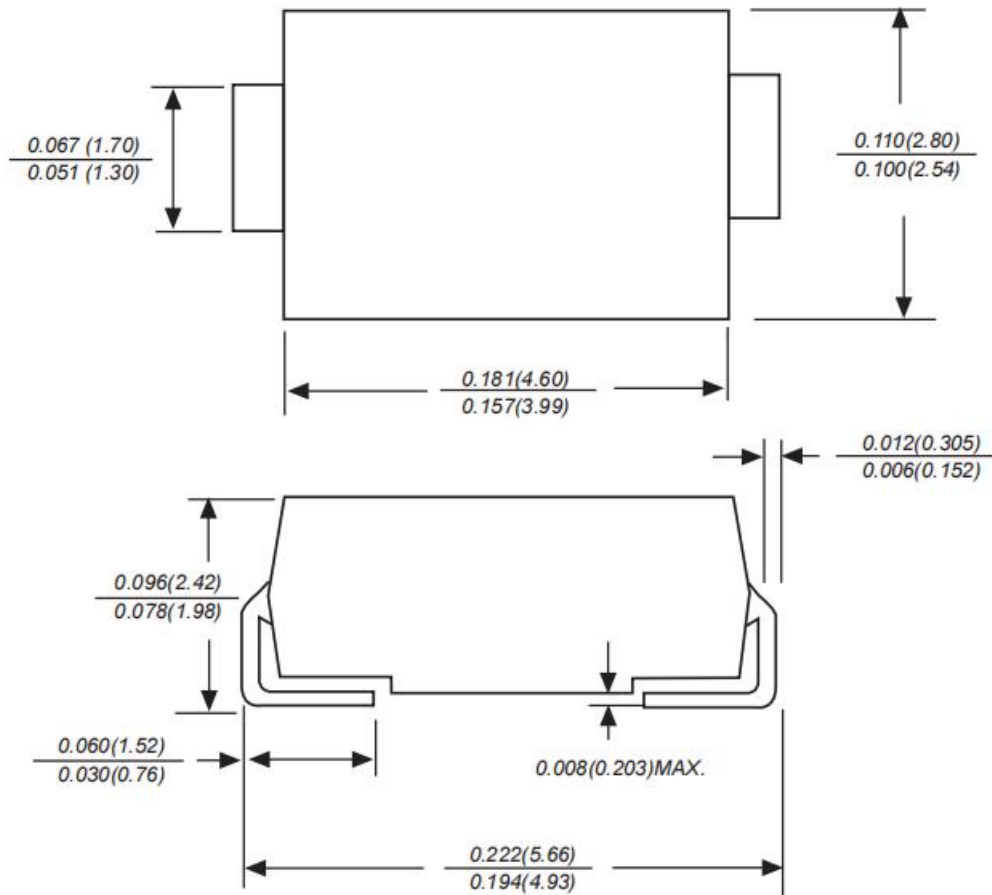


FIG. 6 - TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



NOTES : 1 . Rise Time = 7 ns max . Input Impedance = 1 megohm . 22pF
 2 . Rise time = 10 ns max . Source Impedance = 50 ohms

SET TIME BASE FOR 50/ 100ns/cm

Package 封装信息
SMA(DO-214AC)


Dimensions in inches and (millimeters)

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