

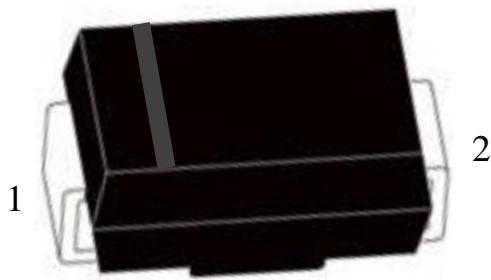
## ■ 描述 DESCRIPTIONS

DO-214AC 塑封封装肖特基势垒二极管。Schottky Barrier Diode in a DO-214AC(SMA) Plastic Package.

## ■ 应用 APPLICATIONS

一般低压整流，高频转换开关和极性保护。General Low Voltage Rectification, High Frequency inverters, and Polarity Protection Applications.

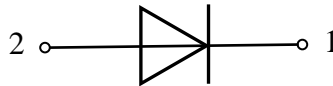
## ■ 引脚说明 PIN ASSIGNMENT



DO-214AC (SMA)

- 1 Cathode
- 2 Anode

## ■ 内部等效电路 Equivalent Circuit



## ■ 型号构成 Name rule

基本名称 Name			辅助识别代码 Additional code			
第一部分 Part 1	第二部分 Part 2	第三部分 Part 3	第四部分 Part 4	第五部分 Part 5	第六部分 Part 6	第七部分 Part 7
品牌 Brand	产品类别 Type	产品型号 Model	分档 Value	分隔号 Separatrix	封装代码 Package	附加码 (备用) Extra-code
FH		1N5819L		“—”	F: DO-214AC	E: ROHS

**■ 额定值 ABSOLUTE MAXIMUM RATINGS (TC=25°C unless otherwise noted)**

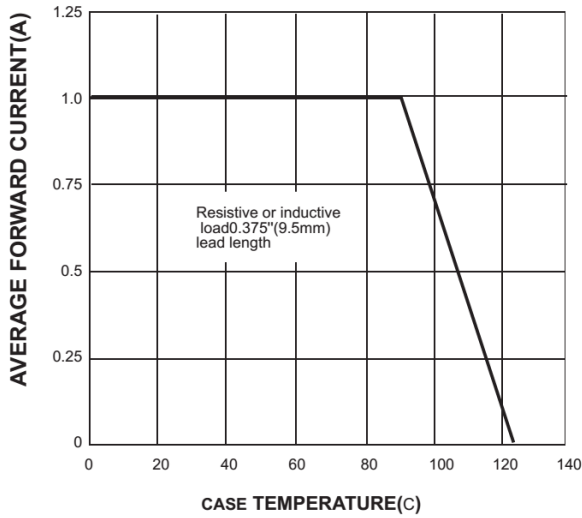
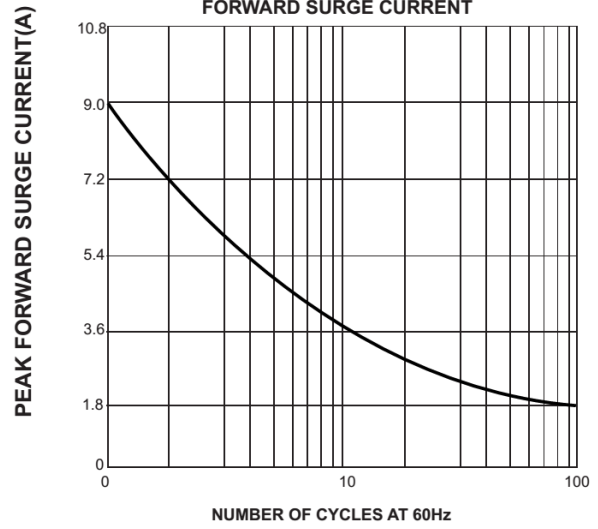
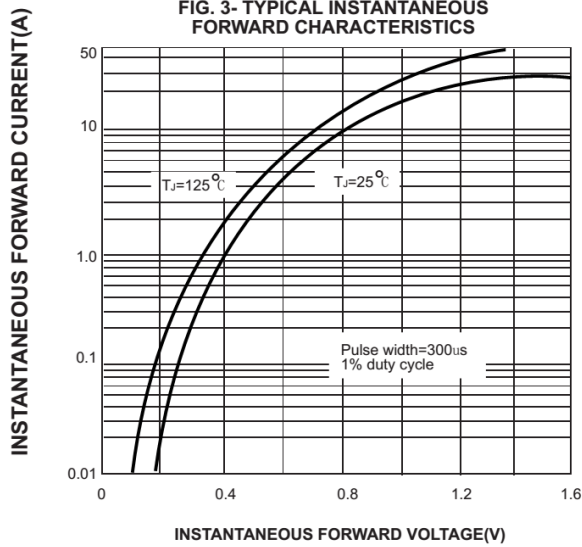
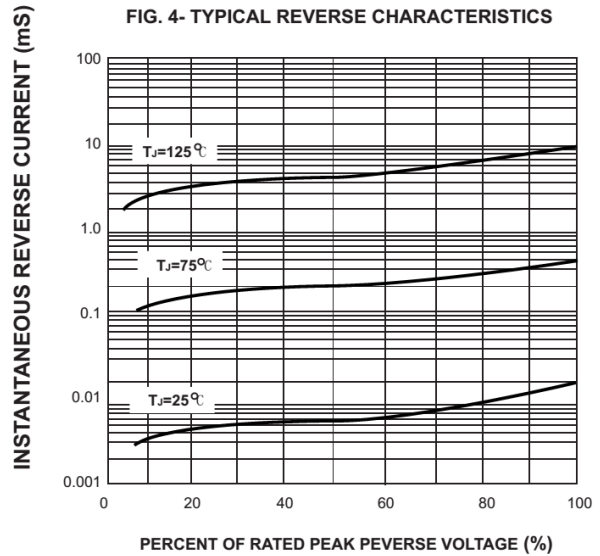
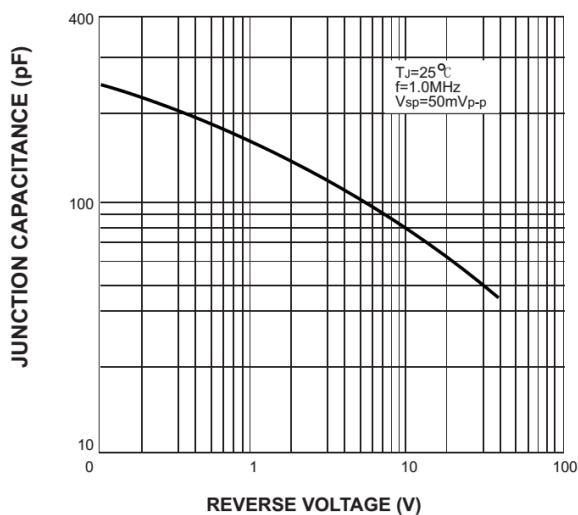
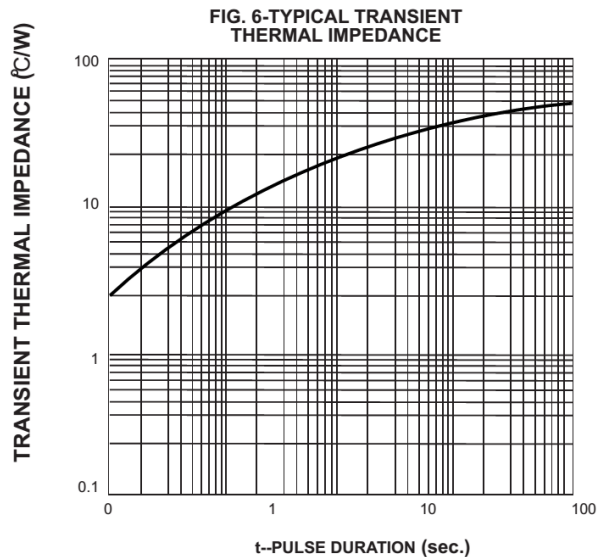
特性参数 CHARACTERISTIC	符号 SYMBOL	额定值 RATING	单位 UNIT
最大反向重复峰值电压 Repetitive Peak Reverse Voltage	$V_{RRM}$	40	V
最大均方根电压 Maximum RMS Voltage	$V_{RMS}$	28	V
最大直流阻断电压 Maximum DC Blocking Voltage	$V_{DC}$	40	V
正向平均整流电流 Maximum Average Rectified Forward Current	$I_{F(AV)}$	1	A
正向不重复浪涌电流 Surge Peak Forward Current (8.3ms Single half sine-wave)	$I_{FSM}$	30	A
热阻(结到环境空气) Thermal Resistance (J to A)(NOTE1)	$R_{thJA}$	75	°C/W
工作结温 Operating Junction Temperature	$T_J$	-55~125	°C
贮存温度 Storage Temperature	$T_{stg}$	-55~150	°C

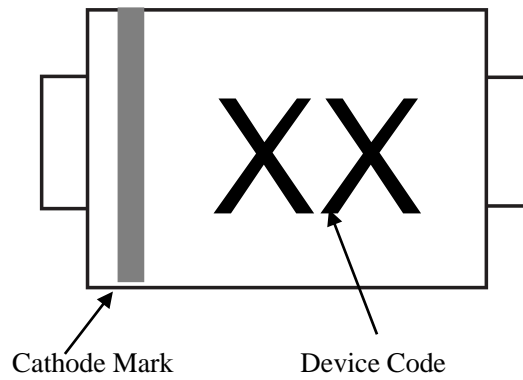
NOTE1:Thermal resistance junction to ambient mounted on PCB with 0.2"\*0.2" (5.0mm\*5.0mm) copper pad areas

**■ 电特性 ELECTRICAL CHARACTERISTICS**

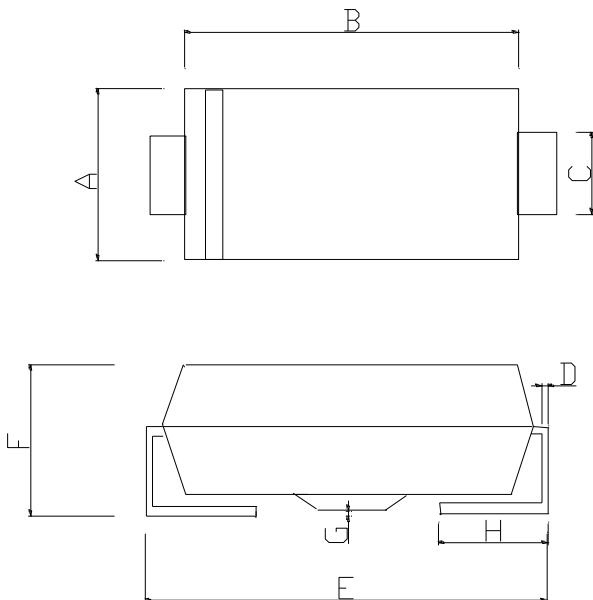
(TA=25°C unless otherwise noted 如无特殊说明, 温度为 25°C)

特性参数 Characteristic	符号 Symbol	测试条件 Test Conditions	最小值 Min.	典型值 Typ.	最大值 Max.	单位 Unit.
反向击穿电压 Reverse Breakdown Voltage	$V_{(BR)R}$	$I_R = 0.1mA$	40	—	—	V
正向压降 Forward Voltage	$V_F$	$I_F = 1A$	—	—	0.55	V
反向电流 Reverse Current	$I_{R(1)}$	$V_R = 40V, T_A = 25°C$	—	—	0.5	mA
	$I_{R(2)}$	$V_R = 40V, T_A = 100°C$	—	—	10	mA
结电容 Junction Capacitance	$C_J$	$V_R = 4V, f = 1.0MHz$	—	110	—	pF

**典型特性 TYPICAL CHARACTERISTICS**
**FIG. 1- 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-TYPICAL TRANSIENT THERMAL IMPEDANCE**


**■ 打标 DEVICE MARKING**


Device	FH1N5819L-FE
Code	SS14

**■ 外形尺寸 PACKAGE OUTLINE DIMENSIONS**
**DO-214AC Package**


Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	2.20	3.00	0.087	0.118
B	4.00	4.75	0.157	0.187
C	1.20	2.20	0.047	0.087
D	0.15	0.41	0.006	0.016
E	4.70	5.70	0.185	0.224
F	1.70	2.50	0.067	0.098
G	-	0.203	-	0.008
H	0.75	1.60	0.030	0.063