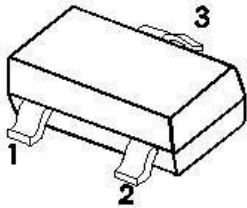
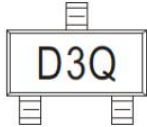
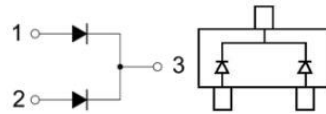


SOT-23 贴片塑封肖特基二极管**SOT-23 Plastic-Encapsulate Schottky Barrier Diode****SOT-23****MARKING: D3Q****特征 Features**

- 小型表贴封装。Small Surface Mounting Type
- 正向压降低。Low Forward Voltage Drop
- 开关速度快。Extremely Fast Switching Speed

机械数据 Mechanical Data

- 封装: SOT-23 封装 SOT-23 Small Outline Plastic Package
- 环氧树脂 UL 易燃等级 Epoxy UL: 94V-0
- 安装位置: 任意 Mounting Position: Any

Internal Structure:**极限值和温度特性**($T_A = 25^\circ\text{C}$ 除非另有规定)**Maximum Ratings & Thermal Characteristics** (Ratings at 25°C ambient temperature unless otherwise specified.)

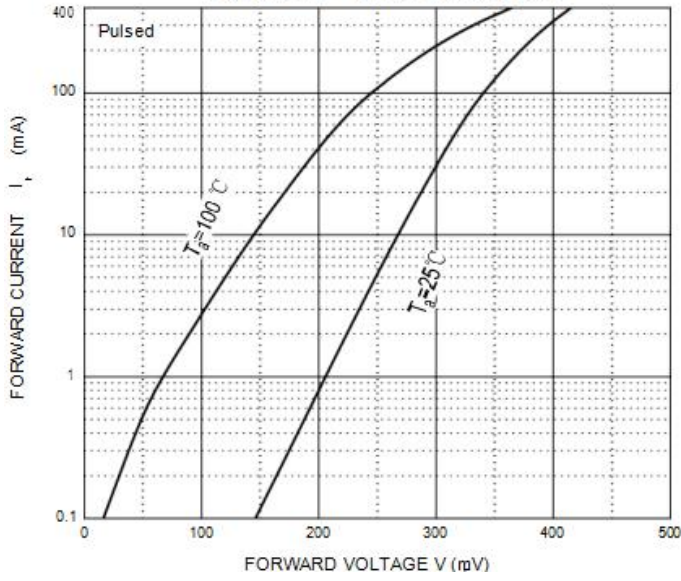
参数 Parameters	符号 Symbol	数值 Value	单位 Unit
反向电压 Reverse Voltage	VR	40	V
反向峰值电压 Peak Repetitive Reverse Voltage	VRRM	40	V
功率消耗 Power Dissipation	Pd	250	mW
典型热阻 Typical thermal resistance	R θ JA	400	$^\circ\text{C}/\text{W}$
结温 Junction Temperature	Tj	125	$^\circ\text{C}$
存储温度 Storage temperature range	TSTG	-55-+150	$^\circ\text{C}$
正向连续电流 Continuous Forward Current	I _o	400	mA
8.3ms峰值正向不重复浪涌电流 Non-Repetitive Peak Forward Surge Current @ t = 8.3ms	IFSM	2	A

电特性 ($T_A = 25^\circ\text{C}$ 除非另有规定)**Electrical Characteristics** (Ratings at 25°C ambient temperature unless otherwise specified).

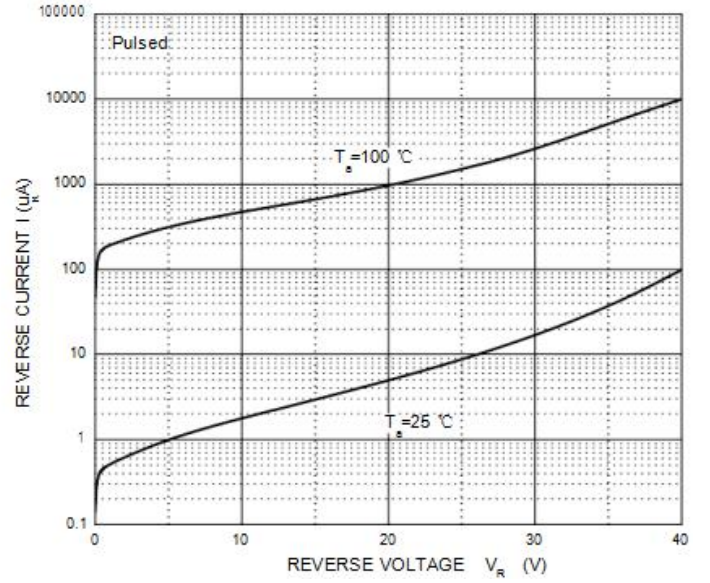
符号 Symbols	参数 Parameter	测试条件 Test Condition	界限 Limits		单位 Unit
			Min	Max	
V(BR)	反向电压 Reverse Voltage	IR=100uA	25		V
IR	反向漏电电流 Reverse Leakage Current	VR=25V	---	70	uA
VF	正向电压 Forward Voltage	IF=10mA	---	0.3	V
		IF=200mA	---	0.5	

Typical Characteristics

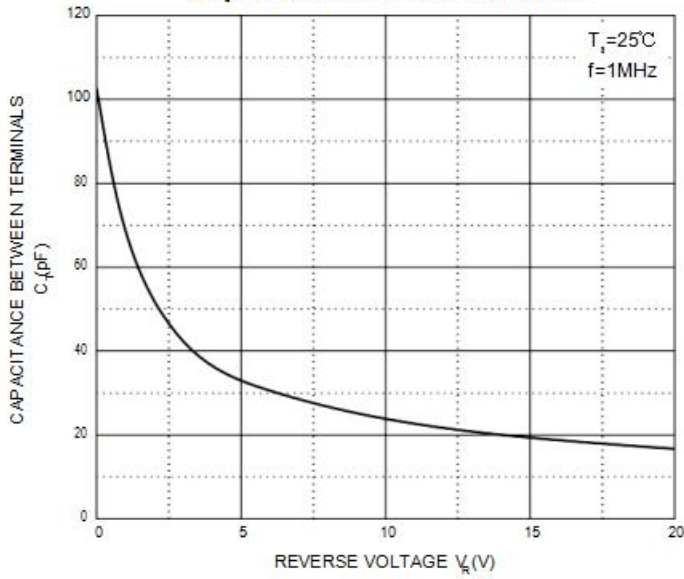
Forward Characteristics



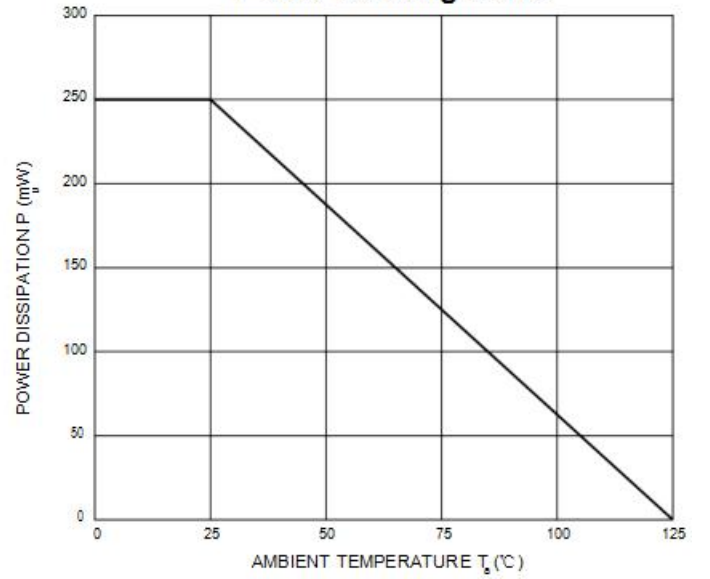
Reverse Characteristics



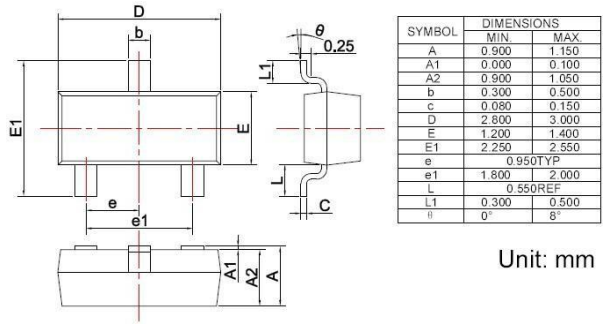
Capacitance Characteristics



Power Derating Curve



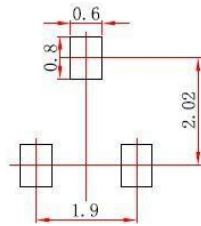
SOT-23 PACKAGE OUTLINE Plastic surface mounted package



焊盘设计参考

Precautions: PCB Design

Recommended land dimensions for SOT-23 diode. Electrode patterns for PCBs



- Note:
1. Controlling dimension: In millimeters.
 2. General tolerance: ±0.05mm.
 3. The pad layout is for reference purposes only.