

特性/机械性能:

FEATURES/MECHANICAL DATA

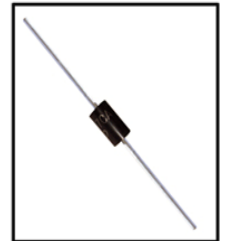
- ◆ 低正向压降 Low forward voltage drop
- ◆ 大电流导通能力 High current capability
- ◆ 高可靠性 High reliability
- ◆ 大电流浪涌能力 High surge current capability
- ◆ 耐焊接热: 250℃/10S, 引出端0.375" (9.5mm) 处。

High temperature soldering guaranteed: 250℃ / 10S / 9.5mm lead length

- ◆ 封装: 模塑封装 Case: Molded plastic
- ◆ 塑封材料: 采用UL94V-0认可的阻燃环氧料 Epoxy: UL94V-0 rate flame retardant
- ◆ 引线: 电镀轴式引线可焊性符合MIL-STD-202E, 方法208

Lead: Axial lead solderable per MIL-STD-202, method 208 guaranteed

- ◆ 极性: 色环表示阴极 Polarity: Color band denotes cathode end
- ◆ 安装位置: 任意 Mounting position: Any



D0-27

最大额定值及电气特性

MAXIMUM RATINGS AND CHARACTERISTICS

测量环境温度为25℃, 除非另有规定. 单相半波, 50HZ, 阻性或感性负载, 对于容性负载, 电流降额20%.
Rating at 25℃ ambient temperature unless otherwise specified. Single phase, half wave, 50HZ, resistive or inductive load. For capacitive load, derate current by 20%.

参数名称 Papt Number	符号Symbol	HER501	HER502	HER503	HER504	HER505	HER506	HER507	HER508	Unit
最大重复峰值反向电压Maximum Recurent Peak Reverse Voltage	VRRM	50	100	200	300	400	600	800	1000	V
最大平均有效值电压Maximum RMS Voltage	VRMS	35	70	140	210	280	420	560	700	V
最大直流截止电压Maximum DC Blocking Voltage	VDC	50	100	200	300	400	600	800	1000	V
最大平均正向整流电流Maximum Average Forward Rectified Current0.375"（9.5mm）Lead Length at Ta=25℃	IF（AV）	5.0								A
峰值正向浪涌电流,额定负载下,单相正弦半波10毫秒(EDEC方法) Peak Forward Surge Current 10ms Single Half Sine-wave Superimposed On Rated Load(JEDEC method)	IFSM	200								A
最大瞬间正向电压Maximum Instantaneous Forward Voltage @50A	VF	1.0				1.3		1.7		V
最大反向直流电流 Maximum DC Reverse Current Ta = 25℃ at Rated DC Blocking Voltage（VR=VDC）Ta = 100℃	IR	10.0 150								μ A μ A
最大反向恢复时间 Maximum Reverse Recovery Time (Note 1)	Trr	50					75			ns
典型结电容 Typical Junction Capacitance（Note2）	CJ	70					50			PF
使用及储存温度范围 Operating and Storage Temperature Range	TJ,TSTG	-65~+125/-65~+150								℃

注 释: NOTES:

1. 反向恢复时间测试条件: IF=0.5A, IR=1.0A, IRR=0.25A.

Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A

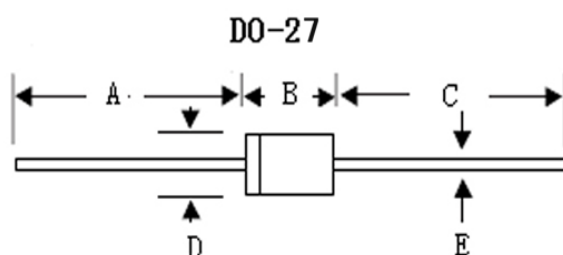
2. 在1MHz下测量, 施加4.0V D.C的反向电压. Measured at 1MHz and applied reverse voltage of 4.0 volts D.C.

3. 热阻是指从结至周围环境的热阻, 在0.375" (9.5mm) 引线长度处.

Thermal Resistance from Junction to Ambient .375 (9.5mm) lead length.

产品外形尺寸:

Product appearance size



DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	1.0		25.4	
B	0.335	0.375	8.5	9.5
C	1.0		25.4	
D	0.197	0.220	5.0	5.6
E	0.0480	0.0520	1.1	1.3

特性曲线图:

RATINGS AND CHARACTERISTIC CURVES

FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

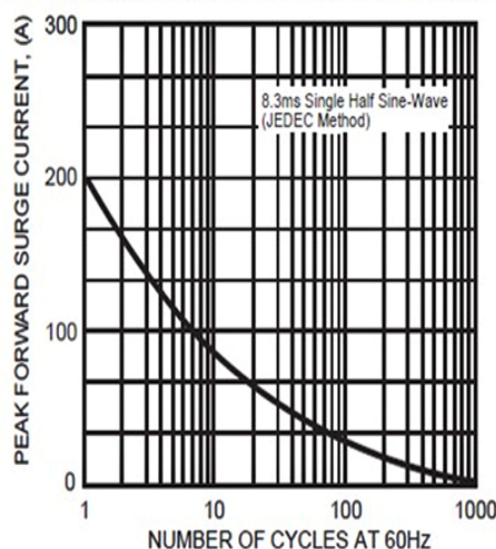


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

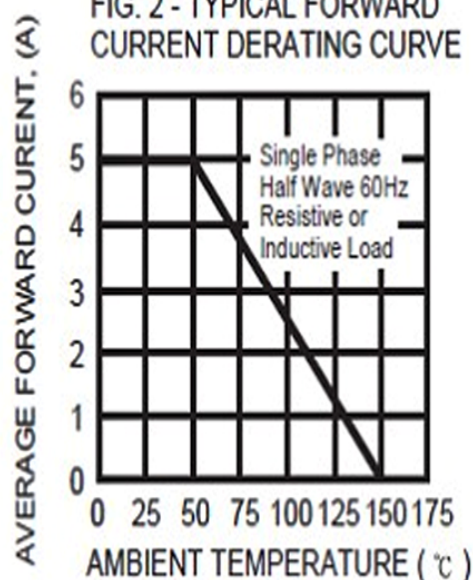


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

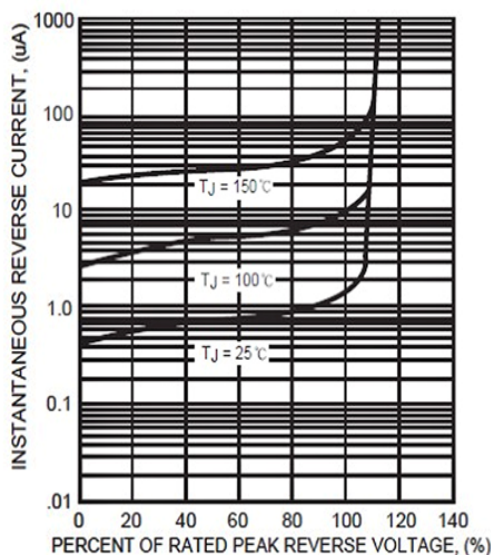


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

