



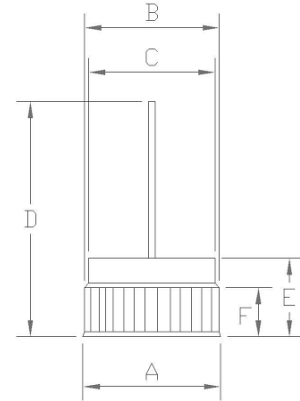
特性: FEATURES

- ◆ 正向压降低. Low forward voltage drop
- ◆ 低漏电. Low leakage current
- ◆ 高浪涌承受能力. High surge current capability
- ◆ 35A 工作在表面温度是125℃, 无热损耗的情况下.
35Ampere Operation At TL=125℃ With No Thermal Runaway

机械性能: MECHANICAL DATA

- ◆ 封装: 铜材质. Case: Copper
- ◆ 端子: 镀金端子, 焊接按照 MIL-STD-202, 方法 208.
Terminals: Plated terminals, solderable per
MIL-STD-202, method 208.
- ◆ 极性: 灌注红色环氧树脂 (端子为正/P 型)
灌注黑色环氧树脂 (端子为负/N 型)
Polarity : By RED Color Epoxy Potting. (Positive)
By BLACK Color Epoxy Potting. (Negative)
- ◆ 重量: 6.8 克. Weight: 6.8grams

BOSCH



A=∅13.0±0.2mm B=∅12.76±0.02mm
C=∅11.4±0.2mm D=25.0mm
E=7.90±0.2mm F=4.15%±0.20mm

Dimension in millimeters

极限值和电参数

TA= 25℃除非另有规定. 单相,正半弦波,60HZ,阻抗或电感负载.为电容装载,减少电流的 20%

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ Ambient temp. Unless otherwise specified. Single phase, half sine wave, 60HZ, resistive or inductive load.

型号 TYPE	符号	DR5000	DR5001	DR5002	DR5004	DR5006	DR5008	DR5010	单位
最大峰值反向电压 Maximum Current Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
最大反向有效值电压 Working Peak Reverse Voltage	V _{RMS}	35	70	140	280	420	560	700	V
最大直流截止电压 Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
最大正向平均整流电流 Ta=125℃, Maximum Average Forward Rectified Current	I _{F(AV)}	50							A
峰值正向浪涌电流 Peak Forward Surge Current 8.3ms Single Sine-wave on Rated Load (JEDEC Method)	I _{FSM}	500							A
最大瞬间正向压降@100A Maximum Instantaneous Forward Voltage Drop at 100A DC	V _F	1.03							V
最大反向直流电流 Maximum DC Reverse Current Ta = 25℃ at Rated DC Blocking Voltage Ta =100℃	I _R	1.0 200							μA
典型结电容 Typical Junction Capacitance (NOTE 1)	C _J	140							pF
工作及储存温度范围 Operating AND Storage Temperature Range	T _J , T _{STG}	-55~+150							℃

注 释 : NOTE 在 1MHz 下测量, 施加 4.0V d.c 的反向电压. Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts D.C.



FIG. 1 –最大正向平均电流降额

FIG. 1 –MAXIMUM AVERAGE FORWARD CURRENT DERATING

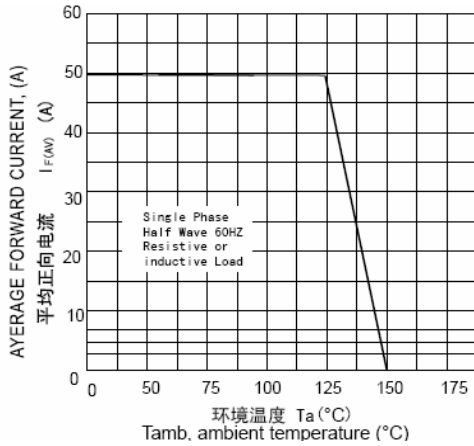


FIG. 3 –反向特性曲线(典型)

FIG. 3 – TYPICAL REVERSE CHARACTERISTICS.

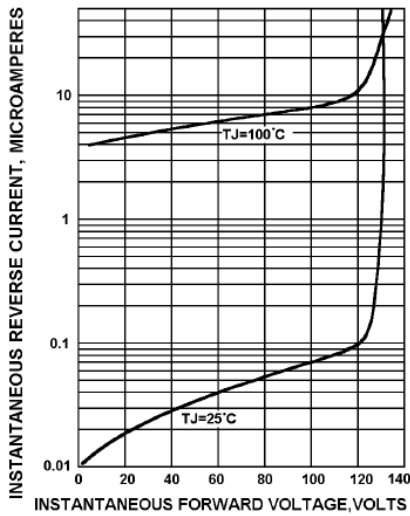


FIG.5–结电容特性曲线

FIG.5–TYPICAL JUNCTION CAPACITANCE

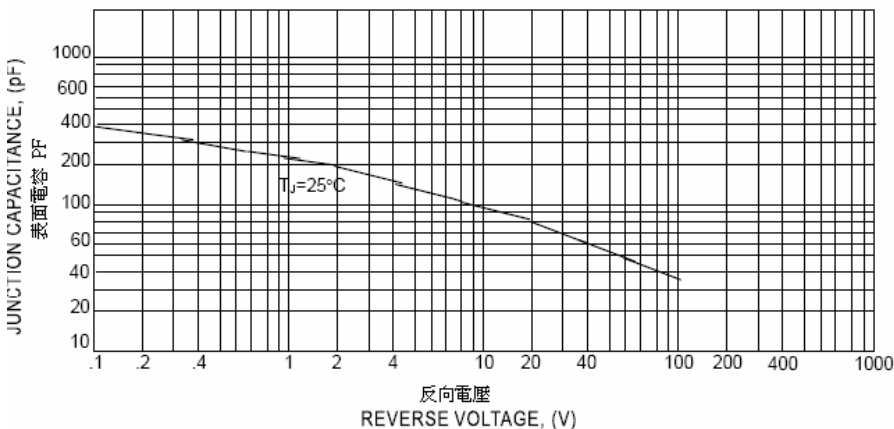


FIG. 2 –最大非重复正向浪涌电流

FIG. 2 –MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

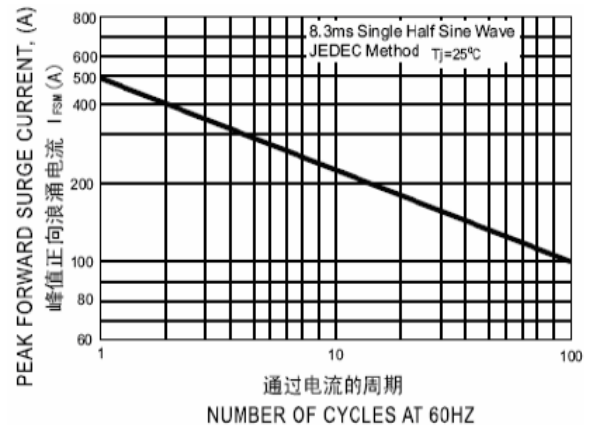


FIG. 4–正向特性曲线(典型)

FIG.4 – TYPICAL FORWARD CHARACTERISTICS

