MP5005 THRU MP506

PRESS-FIT MOTOLOLA DIODES

特征 FEATURES

.50安培工作温度为125度,无热损耗下.

50 Ampere Operation At TL=125℃ With No Thermal Runaway.

.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

机械数据 MECHANICAL DATA

.封装:铜材质 MP封装. Case: Copper MP

.端子:镀金端子,焊接按照 MIL-STD-202,方法 208.

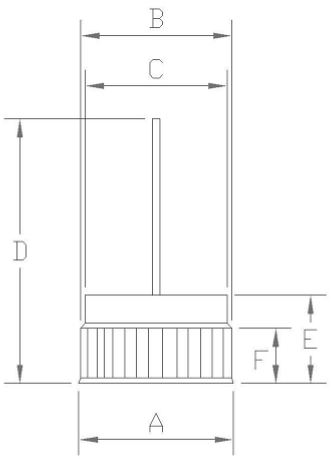
Terminals: Plated terminals, solderable per MIL-STD-202, method 208.

.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

MP



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.
For capacitive load, derate current by 20%

	SYMBOL	MP							UNITS
		5005	501	502	503	504	505	506	
最大峰值反向电压 Maximum Current Peak Reverse Voltage	VRRM	50	100	200	300	400	500	600	Volts
最大反向有效电压 Maximum RMS Voltage	VRMS	35	70	140	210	280	350	420	Volts
最大直流阻断电压 Maximum DC Blocking Voltage	VDC	50	100	200	300	400	500	600	Volts
最大正向平均整流电流 T_L=125℃ Maximum Average Forward Rectified Current	I(AV)	50							Amps
正向峰值浪涌电流 Peak Forward Surge Current 8.3ms Single Sine-wave on Rated Load (JEDEC Method)	IFSM	500							Amps
50A 直流电时最大正向瞬间电压降 Maximum Instantaneous Forward Voltage Drop at 50A DC	VF	1.0							Volts
最大反向漏电流 Maximum DC Reverse Current T_A=25℃ at Rated DC Blocking Voltage T_A=100℃	IR	5 500							uA
典型结电容 Typical Junction Capacitance (NOTE 1)	CJ	120							pF
工作温度存储温度 Operating AND Storage Temperature Range	TSTG/ TJ	-55 to +150							℃

NOTE: 1.Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts D.C.

RATING ANDCHARACTERISTIC CURVES MP5005 THRU MP506

FIG. 1 –最大正向平均电流降额
FIG. 1 –MAXIMUM AVERAGE FORWARD CURRENT DERATING

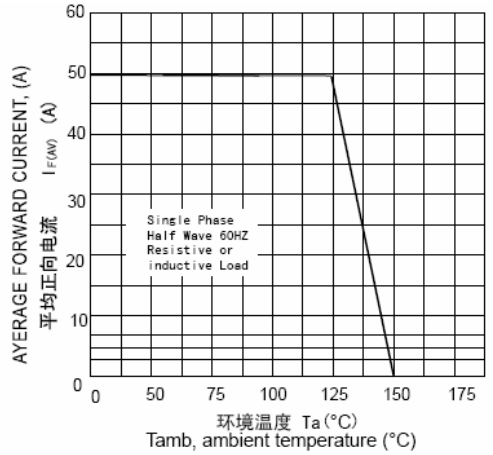


FIG. 2 –最大非重复正向浪涌电流
FIG. 2 –MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

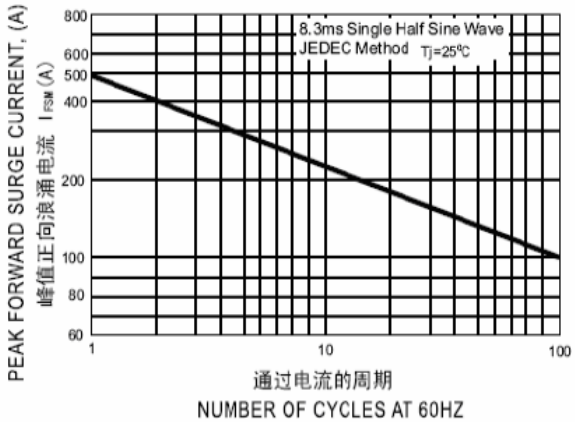


FIG. 3 –反向特性曲线(典型)
FIG. 3 – TYPICA REVERSE CHARACTERISTICS

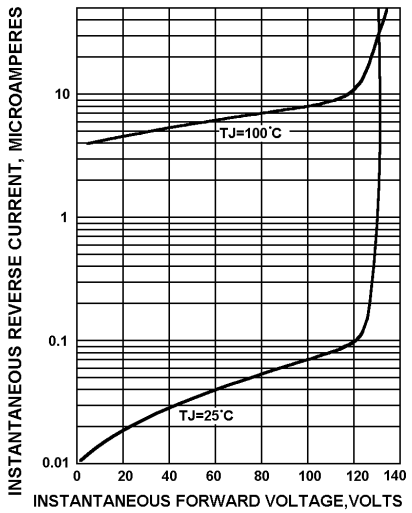


FIG. 4–正向特性曲线(典型)
FIG.4 – TYPICA FORWARD CHARACTERISTICS

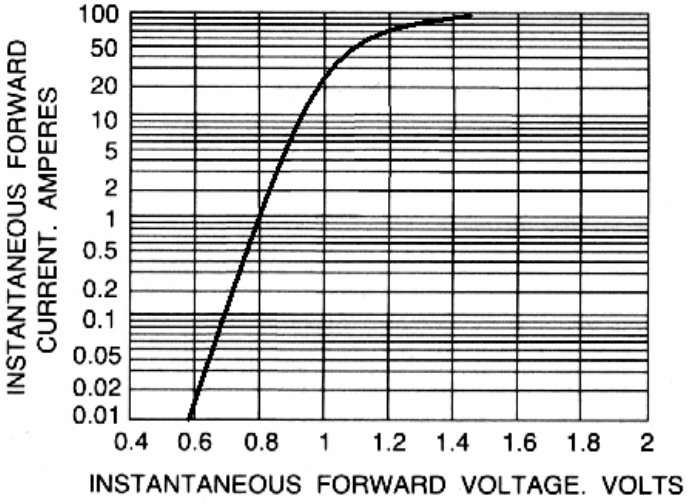


FIG.5–结电容特性曲线
FIG.5–TYPICAL JUNCTION CAPACITANCE

