

DRG1820/1 A THRU DRG1820/1G

1/2" PRESS-FIT BOSCH DIODES

特徵 FEATURES

50 安培工作在溫度為 125 度，無熱失控下。

50 Ampere Operation At TL=125°C

With No Thermal Runaway.

機械資料 MECHANICAL DATA

. 封 裝：銅 Case: Copper

. DRG1820 代表負極，用黑色環氧樹脂灌封。

DRG1820(-) By Black Color Epoxy Potting

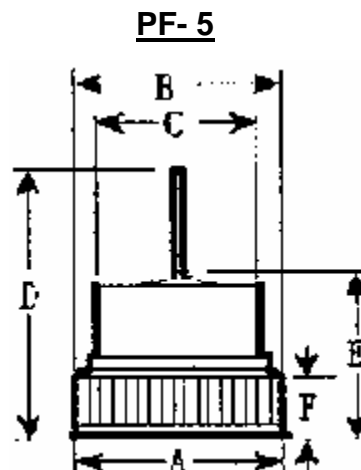
N-Lead, P-Case

DRG1821 代表正極，用紅色環氧樹脂灌封。

DRG1821 (+) By Red Color Epoxy Potting

P-Lead, N-Case

. 重 量：6.8 克。 Weight: 6.8grams



A= ϕ 13.00±0.20mm

B= ϕ 12.80±0.045mm

C= ϕ 9.98±0.030mm

D=30.00mm Min

E=11.00mm Max

F=4.50±0.20mm

尺寸單位：inch(mm)

Dimension in inches (millimeters)

極限值和電參數 TA=25°C 除非另有規定。

單相、正半弦波、60HZ、抗阻或電感負載。為電容裝載。

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C Ambient temp. unless otherwise specified.

Single phase, half sine wave, 60HZ, resistive or inductive load.

	SYMBOL	DRG							UNITS
		1820/1A	1820/1B	1820/1C	1820/1D	1820/1E	1820/1F	1820/1G	
最大峰值反向電壓 Maximum recurrent Reverse Voltage	VRRM	50	100	200	300	400	500	600	Volts
最大反向有效電壓 Maximum RMS Voltage	VRMS	35	70	140	210	280	350	420	Volts
最大直流阻斷電壓 Maximum DC blocking Voltage	VDC	50	100	200	300	400	500	600	Volts
最大正向平均整流電流 Maximum Average Forward Rectified Current at TL=125°C	I(AV)	50							Amps
正向峰值浪涌電流 Peak Forward Surge Current Single Sine-wave on Rated Load (JEDEC Method)	IFSM	500.0							Amps
50.0A直流電時最大正向瞬間電壓降 Maximum Instantaneous Forward Voltage Drop at 50.0A	VF	1.0							Volts
最大反向漏電流 Maximum DC Reverse Current TA=25°C at Rated DC Blocking Voltage TA=100°C	IR	5 500							μA
典型結電容 VR= 4.0V, f = 1.0MHZ Typical Junction Capacitance	CJ	150							pF
工作溫度和存儲溫度 Operating And Storage Temperature Range	TJ, TSTG	-55 to +150							°C

WUXI XUYANG ELECTRONIC CO.,LTD

RATING AND CHARACTERISTIC CURVES DRG1820/1A THRU DRG1820/1G

FIG. 1- 輸出電流降額曲線
FIG. 1 – DERATING CURVE FOR OUTPUT RECTIFIER CURRENT

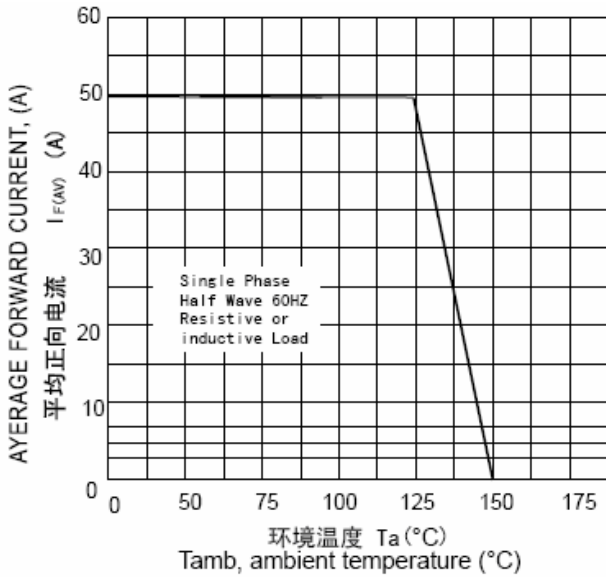


FIG. 2 – 浪涌特性曲線 (最大值)
FIG. 2 – MAXIMUM NON – REPETITIVE PEAK FORWARD SURGE CURRENT

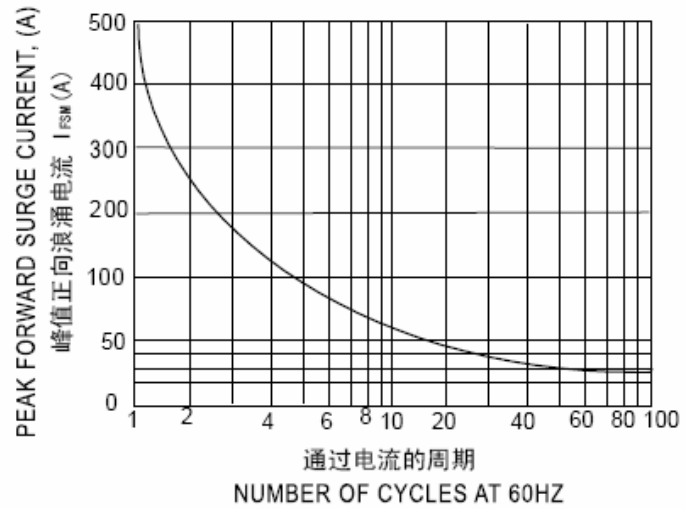


FIG. 3 – 表面電容(典型值)
FIG. 3 – TYPICAL JUNCTION CAPACITANCE

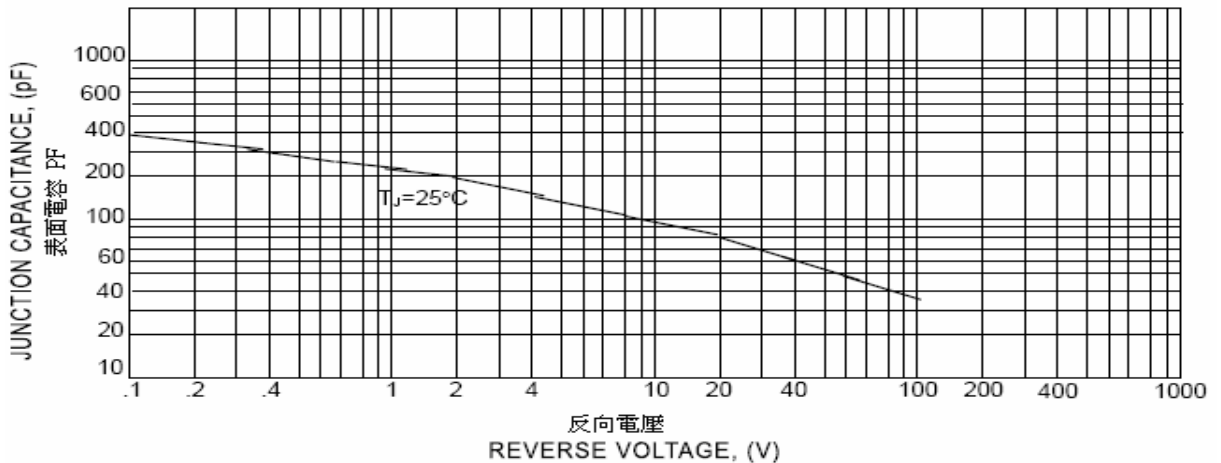


FIG. 4 – 瞬間正向特性曲線(典型值)
FIG. 4 – TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

