

80A/200V 快恢复二极管

80A/200V Fast Recovery Diodes

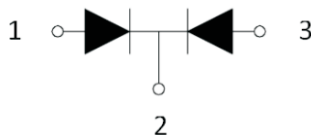
■特征 Features

超快恢复时间
Ultrafast Recovery Times
软恢复特性
Softer Recovery Characteristics
低正向电压
Low Forward Voltage
低反向漏电流
Low reverse leakage current

■应用范围 Applications

续流二极管
Free Wheeling Diode
电机控制器
Motor Controllers
开关式电源
Switching mode power supply
转换器
Converters
逆变器
Inverters
缓冲二极管
Snubber Diode
功率因数校正
PFC:Power Factor Correction

关键参数 KEY PARAMETERS		
参数 PARAMETER	数值 VALUE	单位 UNIT
$I_{F(AV)}$	80	A
V_F	1.05	V
V_{RRM}	200	V
TRR	40	ns
Package	TO-3P	



■机械参数 Mechanical Data

安装扭矩: 8.0kgf.cm
Mounting torque: 8.0kgf.cm max
重量: 约 5.4 克
Weight : About 5.4 grams

■最大额定值 Maximum Ratings @ Ta = 25 °C unless otherwise noted

特征/测试条件 Characteristic / Test Conditions	符号 SYMBOL	典型值 TYP	单位 UNIT
反向重复峰值电压 Maximum recurrent peak reverse voltage	VRRM	200	V
最大平均正向电流 Maximum Average Forward Current	$I_{F(AV)}$	80 (40*2)	A
最大正向浪涌电流, 8.3ms 单半正弦波叠加在额定负载上 Peak surge forward current, 8.3ms single half sine-wave superimposed on rated load	IFSM	800	A
存储温度 Storage Temperature Range	TSTG	-55 ~ +150	°C
耐焊接热, 高温持续 10 秒 Resistance to Soldering Heat, Lead Temperature for 10 Sec	TL	260	°C

■电性特性 Electrical Characteristics @ Ta = 25 °C unless otherwise noted

特征/测试条件 Characteristic / Test Conditions	符号 SYMBOL	典型值 TYP	最大值 MAX	单位 UNIT
正向峰值电压 Peak Forward Voltage	VF	IF=40A, Tj=25°C 1.05	1.15	V
		IF=40A, Tj=150°C 0.90	1.00	V
VR=VRRM, 脉冲测试, 单个二极管的额定值 VR=VRRM, Pulse measurement Rating of per diode	IR	Tj=25°C /	10	μA
		Tj=150°C /	500	
反向恢复时间 Reverse Recovery Time	TRR	IF=0.5A IRR=1A TC=25 °C 30	50	ns

■热特性 Thermal Characteristics @ Ta = 25 °C unless otherwise noted

特征/测试条件 Characteristic / Test Conditions	符号 SYMBOL	典型值 TYP	最大值 MAX	单位 UNIT
结到管壳的热阻,有散热片 Junction to case Thermal Resistance, with heat sink	RθJC	0.8		°C/W

■特性曲线 Characteristic Curve

FIG.1 . Derating Curve For Output Rectified Current

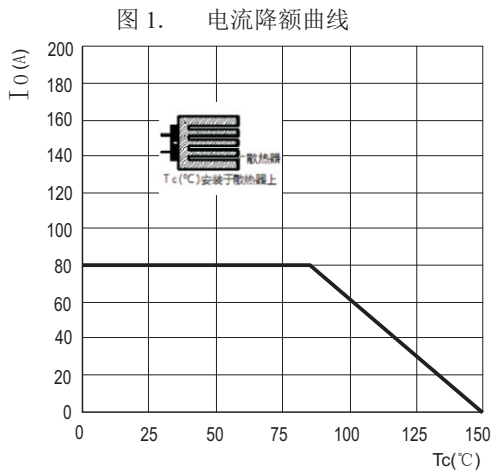


FIG3. Typical Reverse Characteristics Per Bridge Element

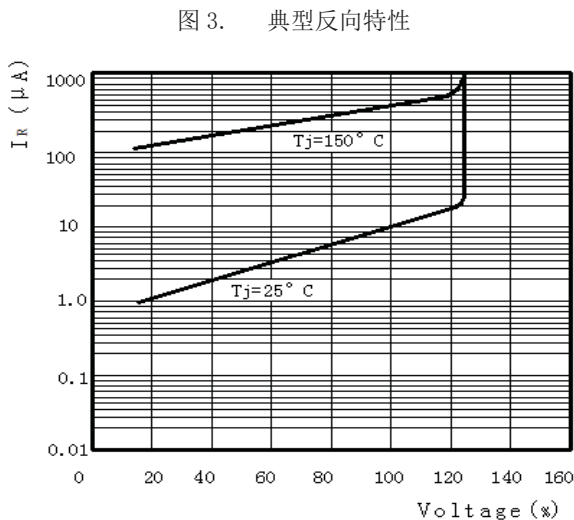


FIG.2 . Maximum Non-Repetitive Peak Forward Surge Current Per Bridge Element

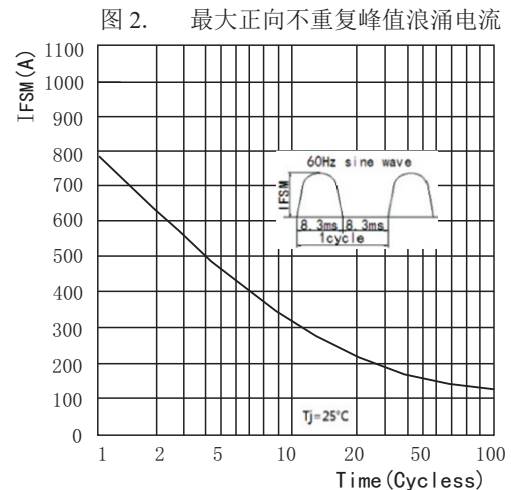
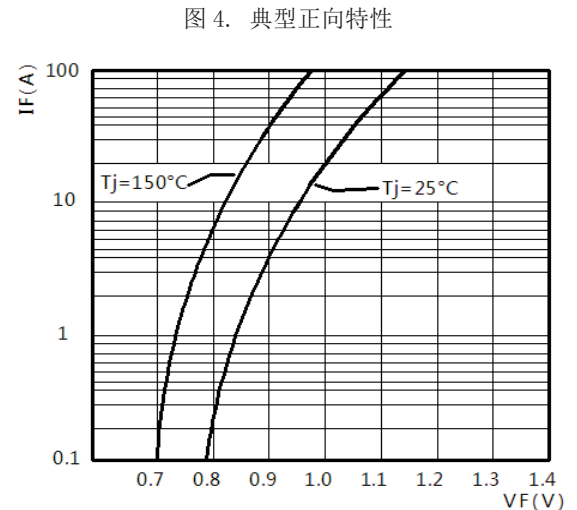
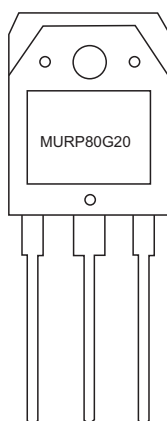


FIG4. Typical Forward Characteristics Per Bridge Element



■ 标记图 Marking Diagram



MURP80G20 : 标识代码

Marking code

■ 尺寸图 Dimension Drawing

