



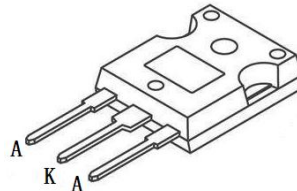
80F40WS3

主要参数 MAIN CHARACTERISTICS

IF(AV)	30×2 A
VRRM	400 V
VF(typ)	1.2V
trr (typ)	36ns

封装 Package

TO-247S



用途

- 逆变焊机
- 开关电源
- UPS
- 高频开关器件并联二极管

APPLICATIONS

- Inversion Welder
- Switch power supply
- UPS
- Antiparalle Diode for high frequency switching devices

产品特性

- 超快恢复时间
- 软恢复特性
- 低正向压降
- 低漏电流

PRODUCT FEATURES

- Ultrafast Recovery Time
- Soft Recovery Characteristics
- Low Forward Voltage
- Low Leakage Current

订货信息 ORDER MESSAGE

订货型号 Order codes		印记 Marking	封装 Package
有卤-条管 Halogen-Tube	无卤-条管 Halogen Free-Tube		
80F40WS3-GG-B	80F40WS3-GG-BR	80F40WS3	TO-247S





绝对最大额定值 ABSOLUTE RATINGS (Tc=25℃)

项 目 Parameter	符 号 Symbol	数 值 Value	单 位 Unit
Maximum Repetitive Reverse Voltage	V _{RRM}	400	V
Average forward current T _C =120℃ Per Diode	I _{F(AV)}	30	A
Per Package		60	
Non-Repetitive Surge Forward Current t=8.3ms	I _{FSM}	480	A
Junction Temperature	T _j	-40~+150	℃
Storage temperature range	T _{STG}	-40~+150	℃

电特性 ELECTRICAL CHARACTERISTICS (Tc=25℃ unless otherwise specified)

项 目 Parameter	测试条件 Tests conditions		最小值 Value(min)	典型值 Value(typ)	最大值 Value(max)	单 位 Unit
V _R	I _R = 50μA		400			V
I _R	T _j = 25℃	V _R = V _{RRM}		0.2	5	μA
	T _j = 125℃			50	100	μA
V _F	T _j = 25℃	I _F = 30A		1.2	1.4	V
	T _j = 125℃			0.95	1.2	V
trr	I _F = 0.5A, I _R = 1.0A, I _{RR} = 0.25A			36	50	ns

热特性 THERMAL CHARACTERISTICS

项 目 Parameter	符 号 Symbol	数 值 Value	单 位 Unit
Thermal resistance from junction to case	R _{th(j-c)}	0.8	℃/W



特征曲线 ELECTRICAL CHARACTERISTICS (curves)

Fig.1 TYPICAL FORWARD CHARACTERISTICS

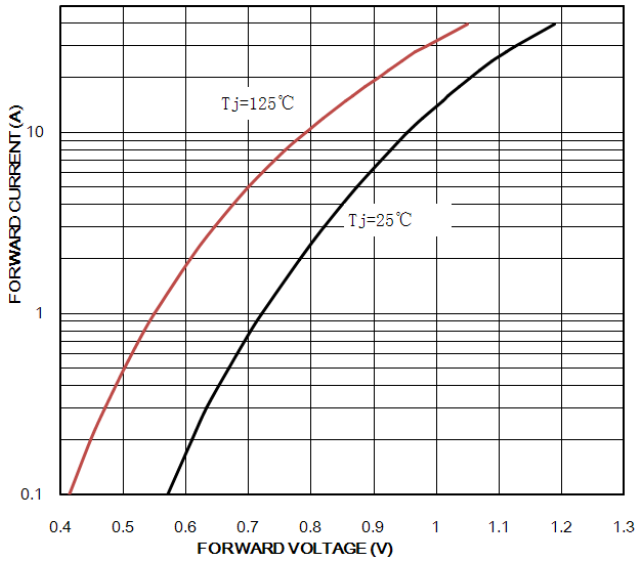
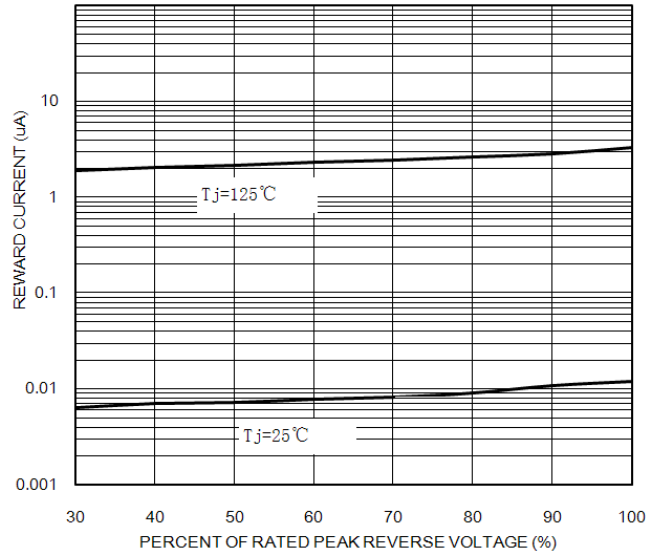


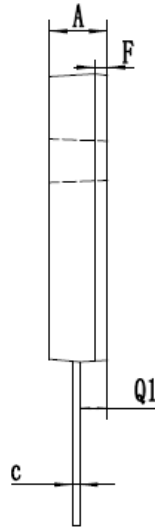
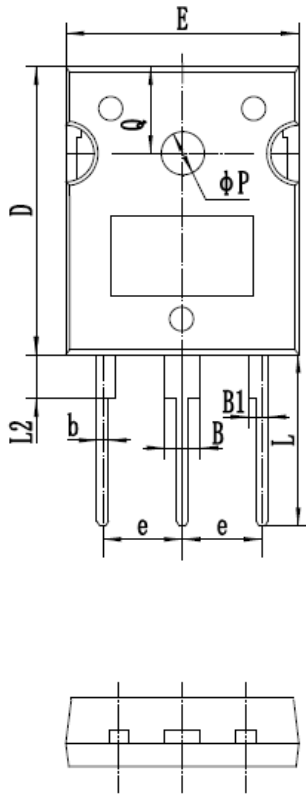
Fig.2 TYPICAL REVERSE CHARACTERISTICS





TO-247S

单位 Unit: mm



符号 SYMBOL	单位: mm	
	MIN	MAX
A	4.8	5.2
B	2.9	3.3
B1	1.9	2.3
b	1.05	1.35
c	0.35	0.65
D	18	22
E	14	17
e	5.44(TYP)	
F	1.1	1.4
L	13	16
L2	2.5	5.5
Q	5.3	5.7
Q1	2.3	2.7
φP	3.9	4.3



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