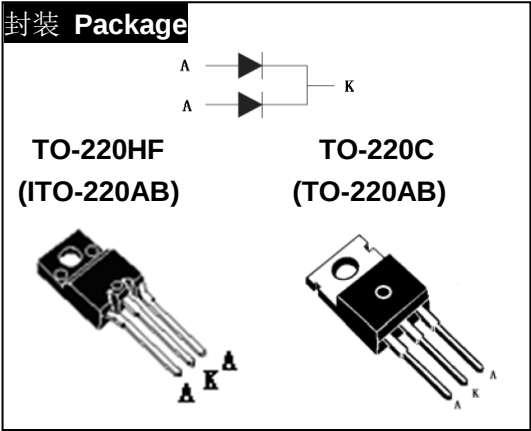




20F40HF3/20F40C3

主要参数 MAIN CHARACTERISTICS

IF(AV)	10×2 A
VRRM	400 V
VF(typ)	1.35V
Trr (typ)	19ns



用途

- 开关电源
- 马达驱动电路

APPLICATIONS

- Switch power supply
- Motor drives

产品特性

- 低正向压降
- 低功耗，高效率
- 高可靠性

FEATURES

- Low forward voltage drop
- Low power loss, high efficiency
- High reliability

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		
20F40HF3-FA-B	20F40HF3-FA-BR	20F40HF3	TO-220HF
20F40C3-C-B	20F40C3-C-BR	20F40C3	TO-220C



绝对最大额定值 ABSOLUTE RATINGS (Tc=25℃)

项 目 Parameter	符 号 Symbol	数 值 Value	单 位 Unit
反向重复峰值电压 Peak Repetitive Reverse Voltage	V_{RRM}	400	V
最大直流阻断电压 Maximum DC Blocking Voltage	V_{DC}	400	V
平均正向整流电流 T _C =100℃ Average Forward Rectified Current	$I_{F(AV)}$	10 20	A
非重复浪涌正向电流 Non-Repetitive Surge Forward Current t=8.3ms	I_{FSM}	120	A
I ² T Rating for Fusing (t < 8.3ms)	I ² T	59.7	A ² S
结温 Junction Temperature	T _j	-55~+150	℃
存储温度 Storage temperature range	T _{STG}	-55~+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℃	-	-	10	μA
	T _j = 125℃	-	-	200	μA
V _F	T _j = 25℃	-	1.35	1.6	V
	T _j = 125℃	-	1.15	1.4	V
T _{rr}	I _F = 0.5A, I _R = 1.0A, I _{RR} = 0.25A	-	22	30	ns
T _{rr}	I _F = 1A, V _R = 30V, di _F /dt = -200A/μs	-	19	30	ns
T _{rr}	I _F = 10A, V _R = 280V, di _F /dt = 400A/μs	-	34.8	-	ns
I _{RM}		-	8.06	-	A

热特性 THERMAL CHARACTERISTICS (maximum) Per Diode

项 目 Parameter	符 号 Symbol	封 装 Package	最大值 Value(max)	单 位 Unit
结到管壳的热阻 Thermal Resistance Junction to Case	R _{th(j-c)}	TO-220C	2	℃/W
		TO-220HF	4	
结到环境的热阻 Thermal Resistance Junction to Ambient	R _{θ(j-A)}	TO-220C	50	℃/W
		TO-220HF	60	





特征曲线 ELECTRICAL CHARACTERISTICS (curves)

Fig.1 TYPICAL FORWARD CHARACTERISTICS

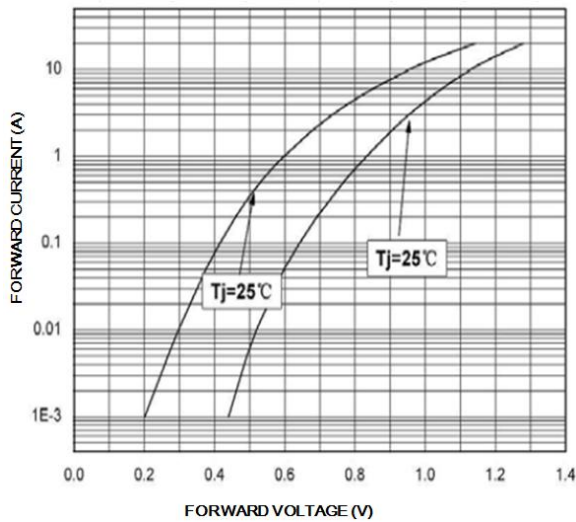


Fig.2 TYPICAL REVERSE CHARACTERISTICS

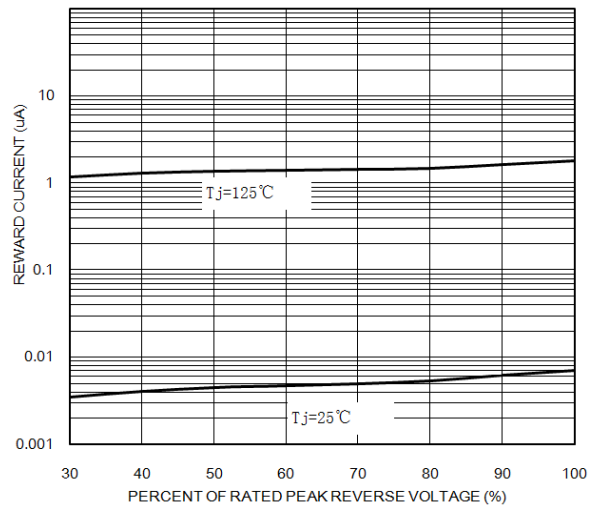


Fig.3 FORWARD CURRENT DERATING CURVE

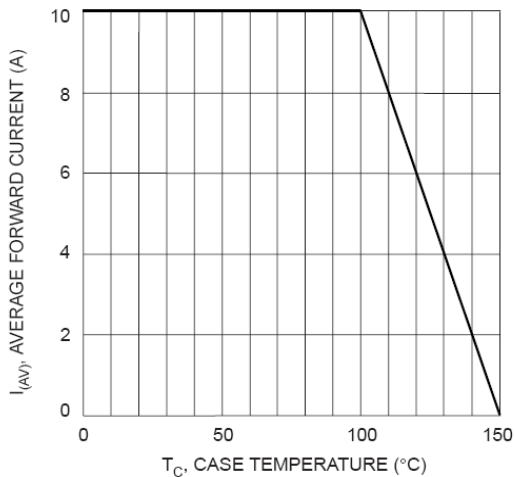


Fig.4 TYPICAL JUNCTION CAPACITANCE

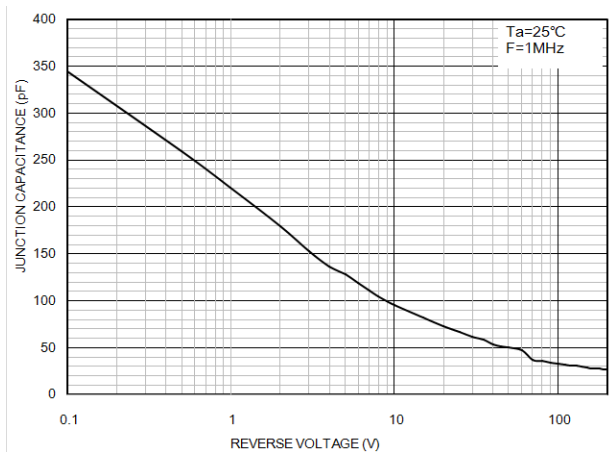
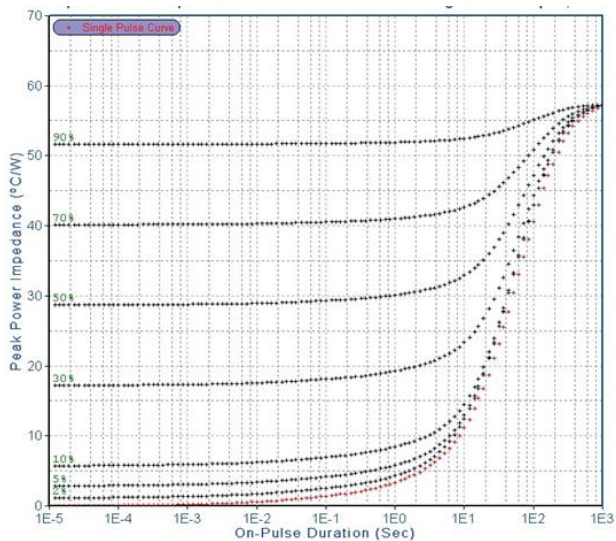


Fig.5 Transient Thermal Impedance $R_{\theta(j-A)}$ TO-220HF

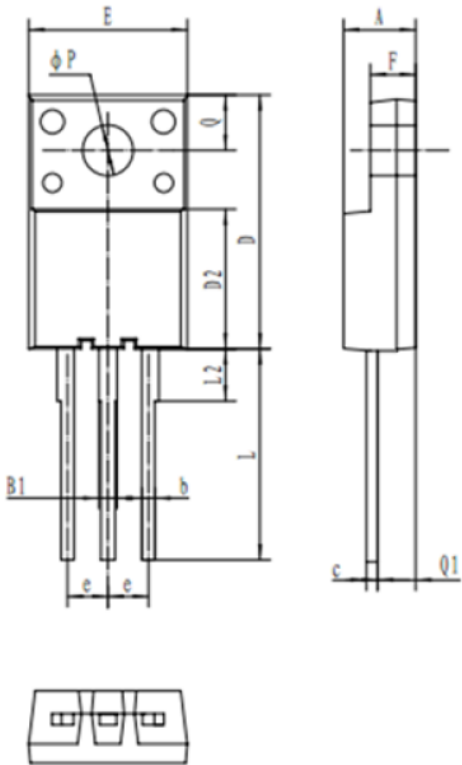




外形尺寸 PACKAGE MECHANICAL DATA

TO-220HF

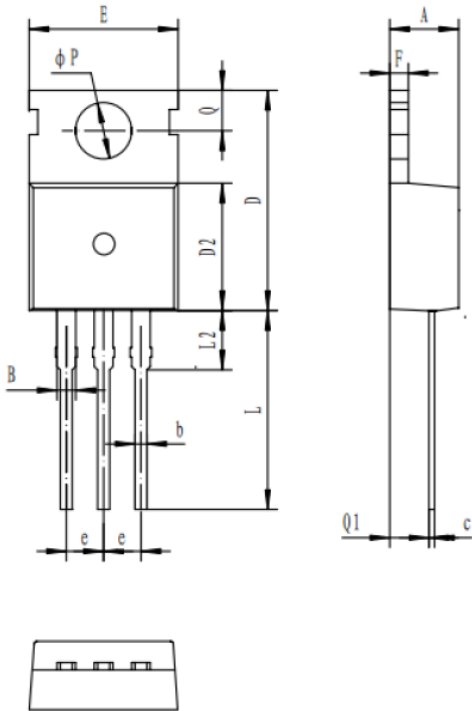
单位 Unit : mm



符号 symbol	MIN	MAX
A	4.0	5.0
B1	0.87	1.27
b	0.72	0.92
c	0.5	0.7
D	15.0	16.5
D2	7.8	9.4
E	9.62	10.62
e	2.54 TYP	
F	2.3	3.3
L	13.0	14.0
L2	3.1	3.5
ϕP	3.0	3.4
Q	3.15	3.55
Q1	2.2	2.5

TO-220C

单位 Unit : mm



符号 symbol	MIN	MAX
A	4.30	4.70
B	1.10	1.40
b	0.70	0.95
c	0.40	0.65
D	15.20	16.20
D2	9.00	9.40
E	9.70	10.10
e	2.39	2.69
F	1.25	1.40
L	12.60	13.60
L2	2.80	3.20
Q	2.60	3.00
Q1	2.20	2.60
P	3.50	3.80





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