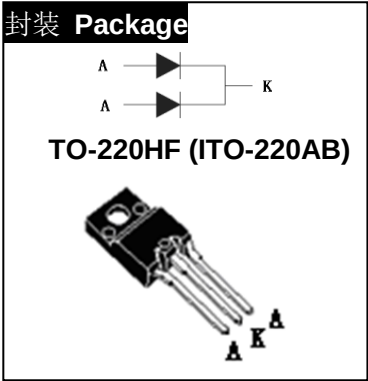




16F40HF3

主要参数 MAIN CHARACTERISTICS

IF(AV)	8×2 A
VRRM	400 V
VF(typ)	1.1V
Trr (typ)	30ns



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		
16F40HF3-FA-B	16F40HF3-FA-BR	16F40HF3	TO-220HF

**绝对最大额定值 ABSOLUTE RATINGS** ($T_c=25^{\circ}\text{C}$)

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
平均正向整流电流 $T_c=100^{\circ}\text{C}$ Average Forward Rectified Current	Per Diode	$I_{F(AV)}$	8	A
	Per Package		16	
非重复浪涌正向电流 Non-Repetitive Surge Forward Current $t=8.3\text{ms}$		I_{FSM}	100	A
结温 Junction Temperature		T_j	$-55\sim+150$	$^{\circ}\text{C}$
存储温度 Storage temperature range		T_{STG}	$-55\sim+150$	$^{\circ}\text{C}$

电特性 ELECTRICAL CHARACTERISTICS ($T_c=25^{\circ}\text{C}$ 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}	-	-	10	μA
	T _j =125℃		-	-	200	μA
V _F	T _j =25℃	I _F =8A	-	1.1	1.3	V
	T _j =125℃		-	1.0	1.2	V
T _{rr}	I _F =0.5A,I _R =1.0A,I _{RR} =0.25A		-	30	35	ns

热特性 THERMAL CHARACTERISTICS (maximum) Per Diode

项 目 Parameter	符 号 Symbol	最大值 Value(max)	单 位 Unit
结到管壳的热阻 Thermal Resistance Junction to Case	$R_{th(j-c)}$	4	$^{\circ}\text{C/W}$





特征曲线 ELECTRICAL CHARACTERISTICS (curves)

Fig.1 TYPICAL FORWARD CHARACTERISTICS

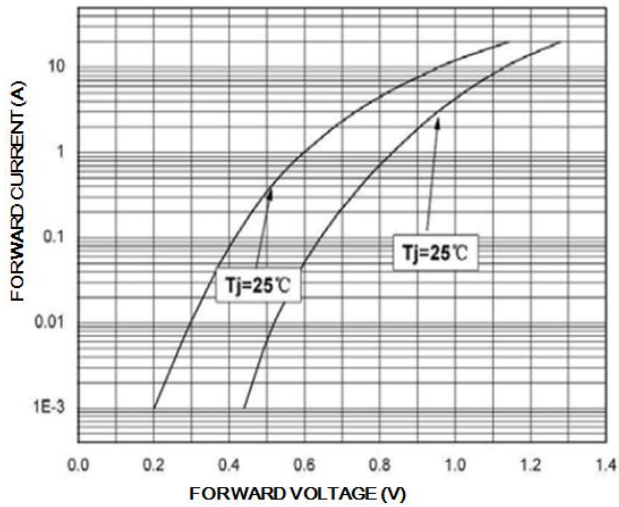


Fig.2 TYPICAL REVERSE CHARACTERISTICS

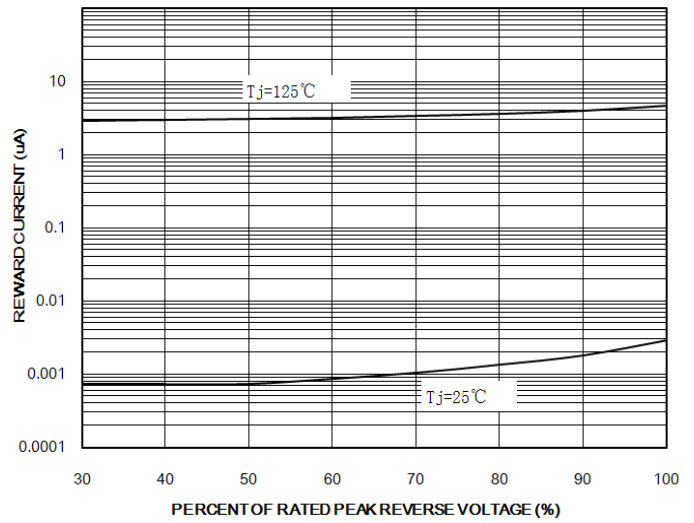
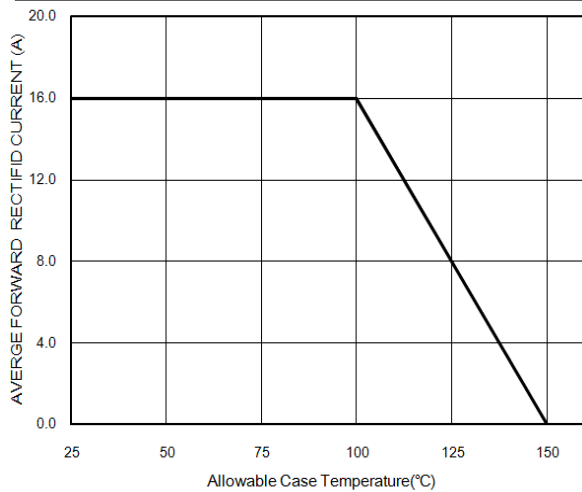


Fig.3 FORWARD CURRENT DERATING CURVE

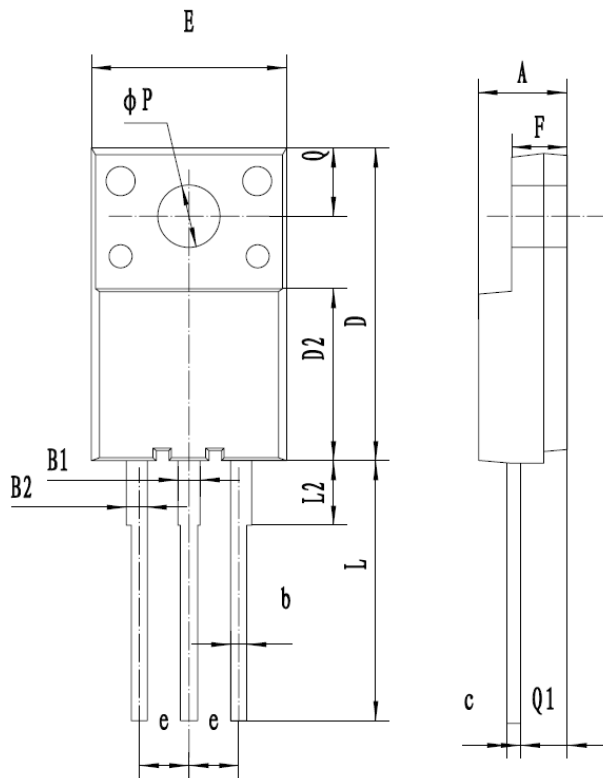




外形尺寸 PACKAGE MECHANICAL DATA

TO-220HF(ITO-220AB)

单位 Unit : mm



符号 symbol	MIN	MAX
A	4.0	5.0
B1	0.87	1.27
B2	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





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