

3A Avg.

600 Volts

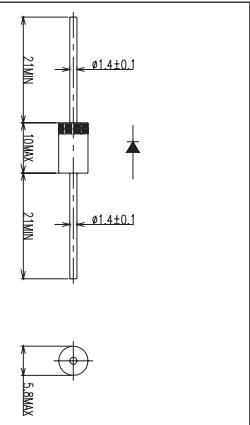
FRED

30PFB60

■最大定格 Maximum Ratings

Item	Symbol	Conditions			Unit
くり返しビーコン逆電圧 Repetitive Peak Reverse Voltage	V _{RRM}	600			V
平均整流電流 Average Rectified Forward Current	I _O	50Hz、正弦半波通電抵抗負荷 50Hz Half Sine Wave Resistive Load	T _a =29°C*	1.2	A
			T _l =109°C T _l =Lead Temperature	3.0	A
実効順電流 R.M.S. Forward Current	I _{F(RMS)}	4.71			A
サージ順電流 Surge Forward Current	I _{FSM}	45A	50Hz正弦半波、1サイクル、非くり返し 50Hz Half Sine Wave, 1cycle, Non-repetitive		A
動作接合温度範囲 Operating Junction Temperature Range	T _{jw}	-40~+150			°C
保存温度範囲 Storage Temperature Range	T _{stg}	-40~+150			°C

■OUTLINE DRAWING(mm)



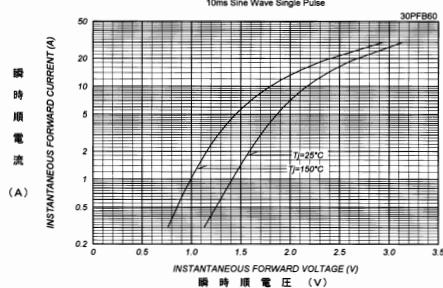
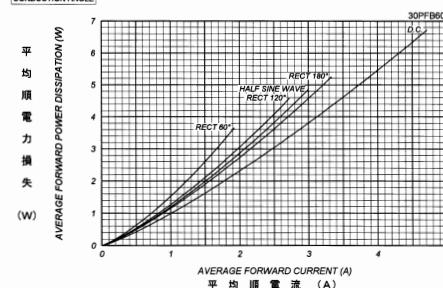
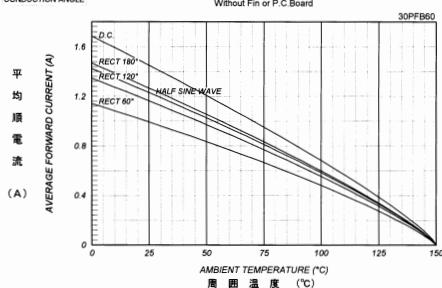
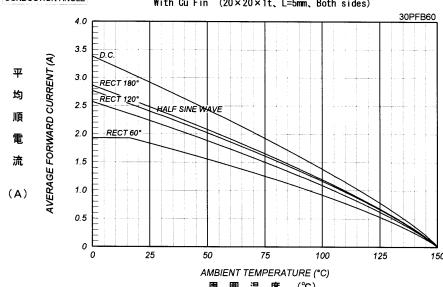
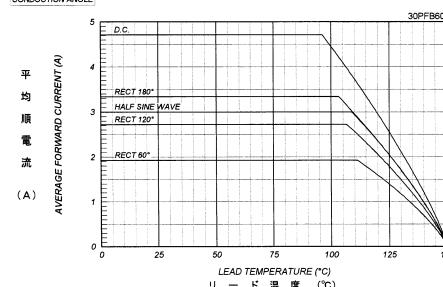
■APPROX. NET WEIGHT:1.21g

■電気的・熱的特性 Electrical/Thermal Characteristics

Item	Symbol	Conditions		Min.	Typ.	Max.	Unit
ピーカク逆電流 Peak Reverse Current	I _{RM}	T _j =25°C, V _{RM} =V _{RRM}		—	—	20	μA
ピーカク順電圧 Peak Forward Voltage	V _{FM}	T _j =25°C, I _{FM} =3A		—	—	1.7	V
逆回復時間 Reverse Recovery Time	trr	I _{FM} =3A, -di/dt=50 A/μs, T _j =25°C		—	—	35	ns
熱抵抗 Thermal Resistance	R _{th(j-a)}	接合部・周間 Junction to Ambient	単体フイン無し*	—	—	80	°C/W
	R _{th(j-l)}	接合部・リード間 Junction to Lead	—	—	—	8	°C/W

* 単体フイン無し / Without Fin or P.C. Board

■定格・特性曲線

FIG.1 順電圧特性
FORWARD CURRENT VS. VOLTAGE
10ms Sine Wave Single PulseFIG.2 平均順電力損失特性
AVERAGE FORWARD POWER DISSIPATION
CONDUCTION ANGLEFIG.3 平均順電流一周囲温度定格
AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE
Without Fin or P.C. BoardFIG.4 平均順電流一周囲温度定格
AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE
With Cu Fin (20×20×1t, L=5mm, Both sides)FIG.5 平均順電流リード温度定格
AVERAGE FORWARD CURRENT VS. LEAD TEMPERATURE
CONDUCTION ANGLEFIG.6 サージ順電流定格
SURGE CURRENT RATINGS
f=50Hz, Half Sine Wave, Non-Repetitive, No Load