

2A Avg.

600 Volts

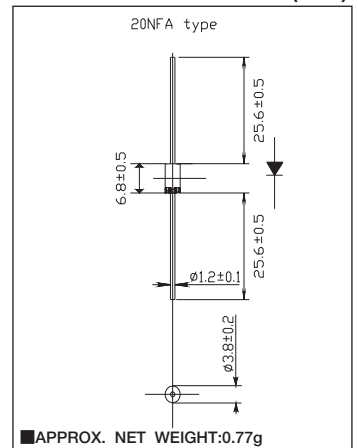
FRED

20NFB60

■最大定格 Maximum Ratings

Item	Symbol	Conditions	Unit
くり返しピーク逆電圧 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	
		$T_l=104^{\circ}\text{C}$ $T_l=\text{Lead Temperature}$	2.0 A
		$T_a=25^{\circ}\text{C}^*$	1.15 A
実効順電流 R.M.S. Forward Current	$I_F(\text{RMS})$	3.14	A
サーージ順電流 Surge Forward Current	I_{FSM}	50 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}	$-40\sim+150$	$^{\circ}\text{C}$
保存温度範囲 Storage Temperature Range	T_{stg}	$-40\sim+150$	$^{\circ}\text{C}$

■OUTLINE DRAWING(mm)



■電氣的・熱的特性 Electrical/Thermal Characteristics

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
ピーク逆電流 Peak Reverse Current	I_{RM}	$T_j=25^{\circ}\text{C}, V_{RM}=V_{RRM}$	—	—	10	μA
ピーク順電圧 Peak Forward Voltage	V_{FM}	$T_j=25^{\circ}\text{C}, I_{FM}=2\text{A}$	—	—	1.58	V
逆回復時間 Reverse Recovery Time	t_{rr}	$I_{FM}=2\text{A}, -di/dt=50\text{A}/\mu\text{s}, T_j=25^{\circ}\text{C}$	—	—	35	ns
熱抵抗 Thermal Resistance	$R_{th(j-l)}$	接合部・リード間 Junction to Lead	—	—	15	$^{\circ}\text{C}/\text{W}$
	$R_{th(j-a)}$	接合部・周囲間 Junction to Ambient	—	—	90	$^{\circ}\text{C}/\text{W}$

*単体フィン無し / Without Fin or P.C. Board

■定格・特性曲線

FIG.1
順電圧特性
FORWARD CURRENT VS. VOLTAGE

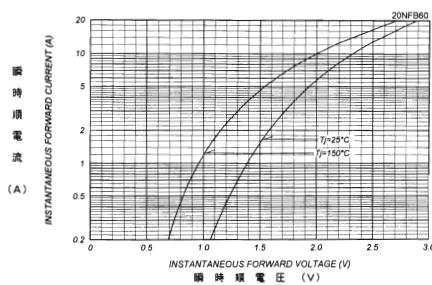


FIG.2
平均順電力損失特性
AVERAGE FORWARD POWER DISSIPATION

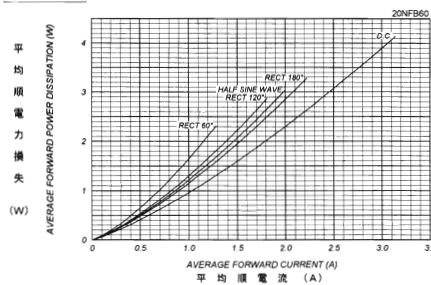


FIG.3
平均順電流 - リード温度定格
AVERAGE FORWARD CURRENT VS. LEAD TEMPERATURE

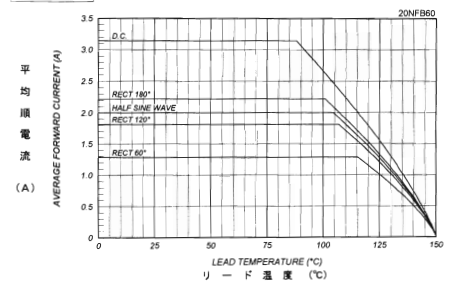


FIG.4
平均順電流 - 周囲温度定格
AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE
Without Fin or P.C. Board

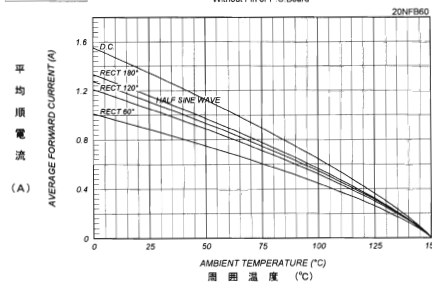


FIG.5
サーージ順電流定格
SURGE CURRENT RATINGS
f=50Hz, Half Sine Wave, Non-Repetitive, No Load

