

1A Avg.

200 Volts

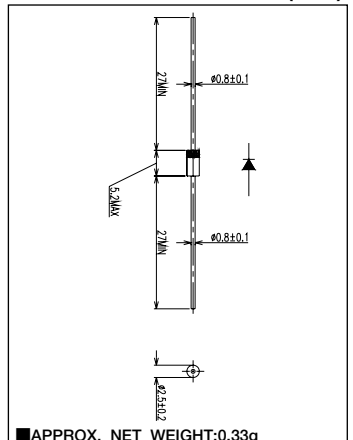
FRED

11DF2

■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}	200	V
非くり返しピーク逆電圧 Non-repetitive Peak Reverse Voltage	V_{RSM}	220	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	$T_a=27^{\circ}\text{C}^{*1}$ 1.0 A
			$T_a=63^{\circ}\text{C}^{*2}$ 1.0 A
実効順電流 R.M.S. Forward Current	$I_F(\text{RMS})$	1.57	A
サーージ順電流 Surge Forward Current	I_{FSM}	30 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}	$T_j=25^{\circ}\text{C}$, $I_{FM}=1\text{A}$	—	—	0.98	V
逆回復時間 Reverse Recovery Time	t_{rr}	$I_{FM}=1\text{A}$, $-di/dt=50\text{ A}/\mu\text{s}$, $T_j=25^{\circ}\text{C}$	—	—	30	ns
熱抵抗 Thermal Resistance	$R_{th(j-a)}$	接合部・周囲間 Junction to Ambient	—	—	115	$^{\circ}\text{C}/\text{W}$
		単体フィン無し*1 プリント基板実装*2	—	—	81	$^{\circ}\text{C}/\text{W}$

*1: 単体フィン無し / Without Fin or P.C. Board

*2: プリント基板実装 / P.C. Board mounted (L=8mm, Print Lands=10×10mm, Both Sides)

■定格・特性曲線

FIG.1

順電圧特性
FORWARD CURRENT VS. VOLTAGE

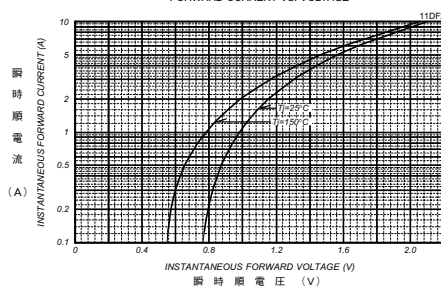


FIG.2

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

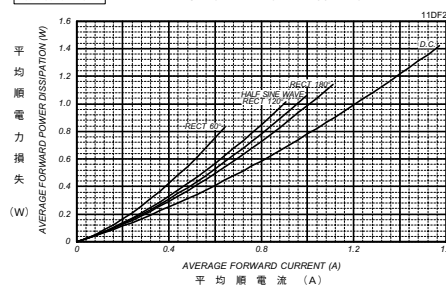


FIG.3

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

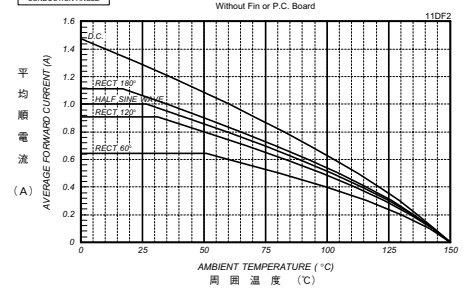


FIG.4

平均順電流 - 周囲温度定格
AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE
P.C. Board mounted (L=8mm, Print Land=10×10mm, Both Sides)

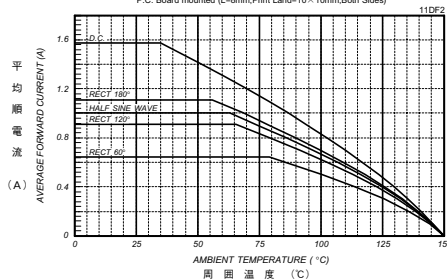


FIG.5

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

