

3A Avg.

400 Volts

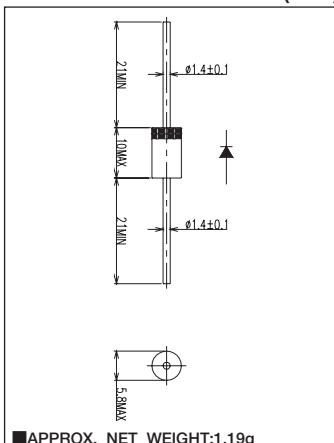
FRED

30PRA40

■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}	400	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	<table border="1"> <tr> <td>$T_l=121^\circ\text{C}$ $T_l=\text{Lead Temperature}$</td> <td>3.0</td> <td>A</td> </tr> <tr> <td>$T_a=34^\circ\text{C}^*$</td> <td>1.4</td> <td>A</td> </tr> </table>	$T_l=121^\circ\text{C}$ $T_l=\text{Lead Temperature}$	3.0	A	$T_a=34^\circ\text{C}^*$	1.4	A
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$T_a=34^\circ\text{C}^*$	1.4	A							
実効順電流 R.M.S. Forward Current	$I_F(\text{RMS})$	4.71	A						
サージ順電流 Surge Forward Current	I_{FSM}	70 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	$^\circ\text{C}$						
保存温度範囲 Storage Temperature Range	T_{stg}	-40~+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}	$T_j=25^\circ\text{C}, I_{FM}=3\text{A}$	—	—	1.15	V
逆回復時間 Reverse Recovery Time	t_{rr}	$I_{FM}=3\text{A}, -di/dt=50\text{A}/\mu\text{s}, T_j=25^\circ\text{C}$	—	—	210	ns
熱抵抗 Thermal Resistance	$R_{th(j-l)}$	接合部・リード間 Junction to Lead	—	—	8	$^\circ\text{C}/\text{W}$
	$R_{th(j-a)}$	接合部・周囲間* Junction to Ambient*	—	—	80	$^\circ\text{C}/\text{W}$

*単体フィン無し / Without Fin or P.C. Board

■定格・特性曲線

