

1A Avg.

100 Volts

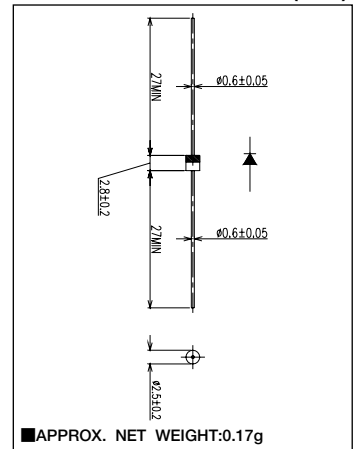
FRED

10ERB10

■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}	100	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>$T_a=50^{\circ}C$ *1</td> <td>1</td> <td>A</td> </tr> <tr> <td>$T_a=27^{\circ}C$ *2</td> <td>0.9</td> <td>A</td> </tr> </table>	$T_a=50^{\circ}C$ *1	1	A	$T_a=27^{\circ}C$ *2	0.9	A
$T_a=50^{\circ}C$ *1	1	A							
$T_a=27^{\circ}C$ *2	0.9	A							
実効順電流 R.M.S. Forward Current	$I_F(RMS)$	1.57	A						
サージ順電流 Surge Forward Current	I_{FSM}	45 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	$^{\circ}C$						
保存温度範囲 Storage Temperature Range	T_{stg}	-40~+150	$^{\circ}C$						

■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}	$T_j=25^{\circ}C, V_{RM}=V_{RRM}$	—	—	10	μA
ピーク順電圧 Peak Forward Voltage	V_{FM}	$T_j=25^{\circ}C, I_{FM}=1A$	—	—	1.03	V
逆回復時間 Reverse Recovery Time	t_{rr}	$I_{FM}=1A, -di/dt=50 A/\mu s, T_j=25^{\circ}C$	—	—	60	ns
熱抵抗 Thermal Resistance	$R_{th(j-a)}$	接合部・周囲間 Junction to Ambient	—	—	100	$^{\circ}C/W$
		プリント基板実装*1 単体フィン無し*2	—	—	140	$^{\circ}C/W$

*1: プリント基板実装 / P.C. Board mounted (L=3mm, Print Lands=7×7 mm, Both Sides)
*2: 単体フィン無し / Without Fin or P.C. Board mounted

■定格・特性曲線

