

1A Avg.

400 Volts

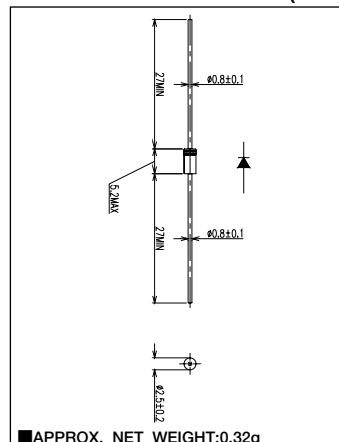
FRED

10DRA40

■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>$T_a=58^\circ\text{C}^*1$</td> <td>1.0</td> <td>A</td> </tr> <tr> <td>$T_a=35^\circ\text{C}^*2$</td> <td>1.0</td> <td>A</td> </tr> </table>	$T_a=58^\circ\text{C}^*1$	1.0	A	$T_a=35^\circ\text{C}^*2$	1.0	A
$T_a=58^\circ\text{C}^*1$	1.0	A							
$T_a=35^\circ\text{C}^*2$	1.0	A							
実効順電流 R.M.S. Forward Current	$I_F(\text{RMS})$	1.57	A						
サージ順電流 Surge Forward Current	I_{FSM}	35 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:0.32g

■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}	$T_j=25^\circ\text{C}, I_{FM}=1\text{A}$	—	—	1.13	V
逆回復時間 Reverse Recovery Time	t_{rr}	$I_{FM}=1\text{A}, -di/dt=50\text{A}/\mu\text{s}, T_j=25^\circ\text{C}$	—	—	120	ns
熱抵抗 Thermal Resistance	$R_{th(j-a)}$	接合部・周囲間 Junction to Ambient	—	—	81	°C/W
		プリント基板実装*1 単体フィン無し*2	—	—	115	°C/W

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

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

■定格・特性曲線

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

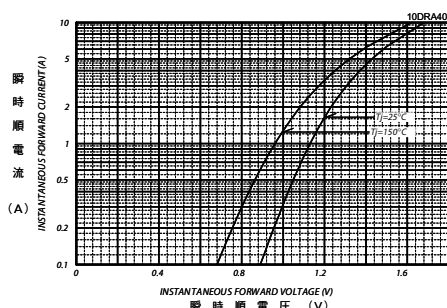


FIG.2
平均順電力損失特性
AVERAGE FORWARD POWER DISSIPATION

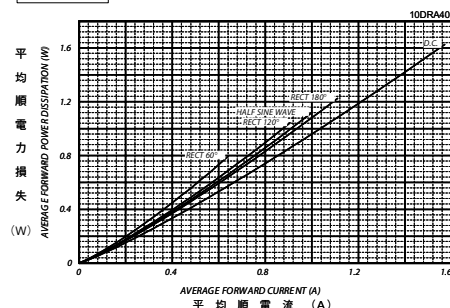


FIG.3
平均順電流一周囲温度定格
AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE
P.C. Board mounted (L=8mm, Print Land=10×10mm, Both Sides)

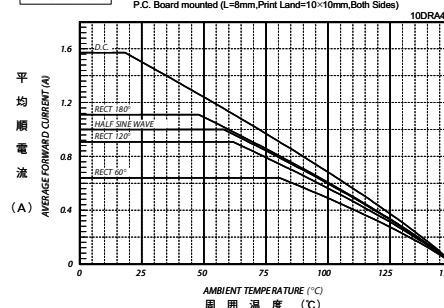


FIG.4
平均順電流一周囲温度定格
AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE
Without Fin or P.C. Board

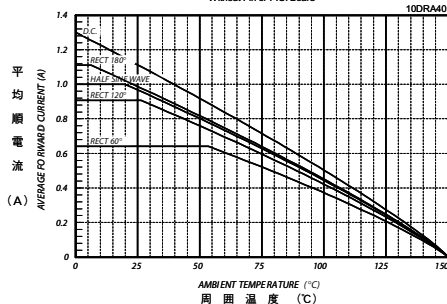


FIG.5
サージ順電流定格
SURGE CURRENT RATINGS
f=50Hz Half Sine Wave, Non-Repetitive, No Load

