

3A Avg.

40 Volts

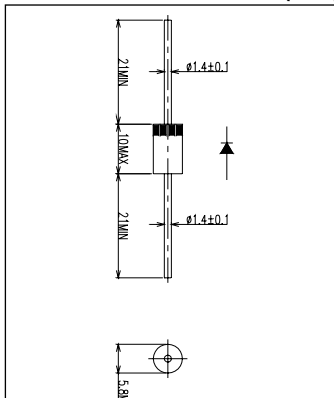
SBD

31DQ04

■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}	40	V
非くり返しピーク逆電圧 Non-repetitive Peak Reverse Voltage	V_{RSM}	45	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	$T_a=32^{\circ}\text{C}^{*1}$ 1.7 A
			$T_a=53^{\circ}\text{C}^{*2}$ 3.0 A
実効順電流 R.M.S. Forward Current	$I_{F(RMS)}$	4.71	A
サージ順電流 Surge Forward Current	I_{FSM}	120 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}	$T_j=25^{\circ}\text{C}, V_{RM}=V_{RRM}$	—	—	3	mA
ピーク順電圧 Peak Forward Voltage	V_{FM}	$T_j=25^{\circ}\text{C}, I_{FM}=3\text{A}$	—	—	0.55	V
熱抵抗 Thermal Resistance	$R_{th(j-a)}$	接合部・周囲間 Junction to Ambient	単体フィン無し*1		80	$^{\circ}\text{C}/\text{W}$
			プリント基板実装*2		34	$^{\circ}\text{C}/\text{W}$

*1: 単体フィン無し / Without Fin or P.C. Board
*2: 銅板フィン付き(両側) / With Cu Fin (20×20×1t, L=5mm, Both Sides)

■定格・特性曲線

