

3A Avg.

30 Volts

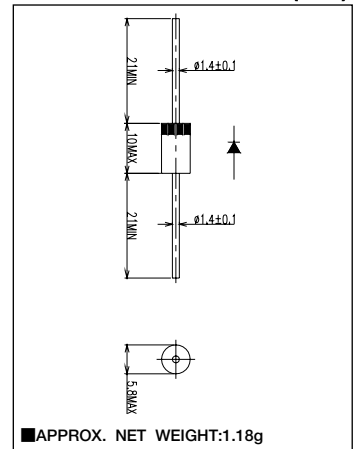
SBD

31DQ03L

最大定格 Maximum Ratings

Item	Symbol	Conditions	Unit
くり返しピーク逆電圧 Repetitive Peak Reverse Voltage	$V_{RRM}$	30	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	$T_a=25^{\circ}C^{*1}$ 1.9 $T_a=53^{\circ}C^{*2}$ 3.0
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	$^{\circ}C$
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	$I_{RM}$	$T_j=25^{\circ}C, V_{RM}=V_{RRM}$	—	—	3	mA
ピーク順電圧 Peak Forward Voltage	$V_{FM}$	$T_j=25^{\circ}C, I_{FM}=3A$	—	—	0.45	V
熱抵抗 Thermal Resistance	$R_{th(j-a)}$	接合部・周囲間 Junction to Ambient	—	—	80	$^{\circ}C/W$
			—	—	34	$^{\circ}C/W$

\*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

