

1.7A Avg.

100 Volts

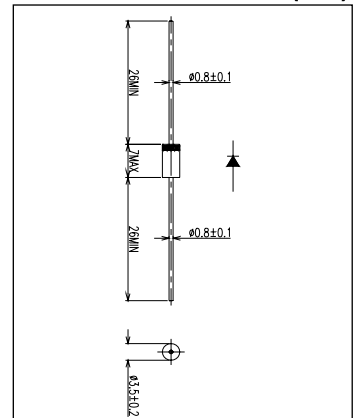
SBD

21DQ10

■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、正弦波通電抵抗負荷 50Hz Half Sine Wave Resistive Load	$T_a=28^{\circ}C^{*1}$ 1.3 A
			$T_a=43^{\circ}C^{*2}$ 1.7 A
実効順電流 R.M.S. Forward Current	$I_F(RMS)$	2.67	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	$^{\circ}C$
保存温度範囲 Storage Temperature Range	T_{stg}	-40~+150	$^{\circ}C$

■OUTLINE DRAWING(mm)



■APPROX. NET WEIGHT:0.38g

■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}	$T_j=25^{\circ}C, V_{RM}=V_{RRM}$	—	—	1	mA
ピーク順電圧 Peak Forward Voltage	V_{FM}	$T_j=25^{\circ}C, I_{FM}=2A$	—	—	0.85	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		105	$^{\circ}C/W$
			プリント基板実装*2		70	$^{\circ}C/W$

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

*2: プリント基板実装 / P.C. Board Mounted (Print Lands=5×5 mm, Both Sides)

■定格・特性曲線

FIG.1

順電圧特性
FORWARD CURRENT VS. VOLTAGE

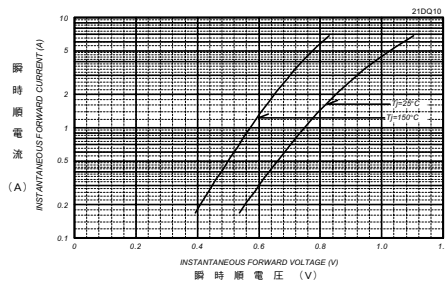


FIG.2

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

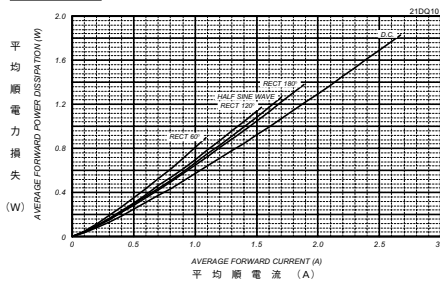


FIG.3

ピーク逆電流 - ピーク逆電圧特性
PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

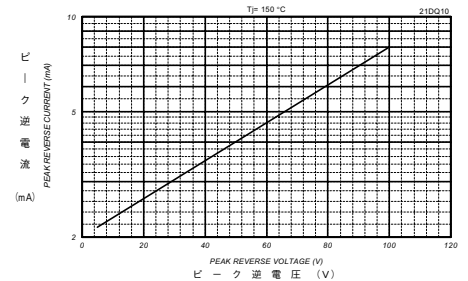


FIG.4

平均逆電力損失
AVERAGE REVERSE POWER DISSIPATION

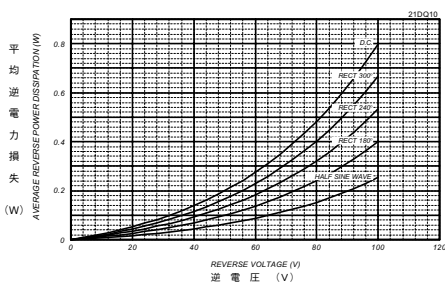


FIG.5

平均順電流 - 周囲温度定格
AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

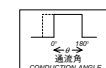
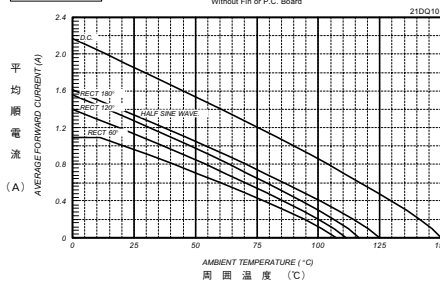


FIG.6

平均順電流 - 周囲温度定格
AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

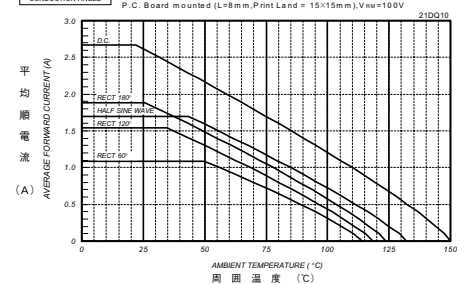


FIG.7

サージ順電流定格
SURGE CURRENT RATINGS

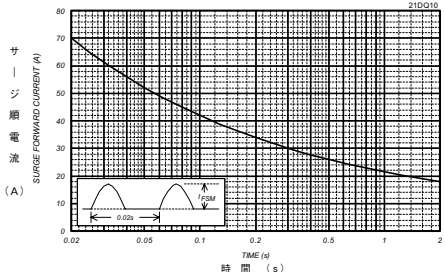


FIG.8

接合容量特性
JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

