

1A Avg.

400 Volts

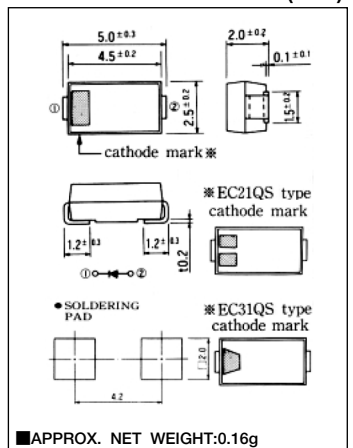
FRED

EC10UA40

## 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	
		$T_J=114^{\circ}\text{C}$	1.0 A
		$T_a=28^{\circ}\text{C}^{*1}$	0.8 A
実効順電流 R.M.S. Forward Current	$I_F(\text{RMS})$	1.51	A
サージ順電流 Surge Forward Current	$I_{FSM}$	20 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	$T_{JW}$	$-40\sim+150$	$^{\circ}\text{C}$
保存温度範囲 Storage Temperature Range	$T_{stg}$	$-40\sim+150$	$^{\circ}\text{C}$

## 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	$I_{RM}$	$T_J=25^{\circ}\text{C}$ , $V_{RM}=V_{RRM}$	—	—	20	$\mu\text{A}$
ピーク順電圧 Peak Forward Voltage	$V_{FM}$	$T_J=25^{\circ}\text{C}$ , $I_{FM}=1\text{A}$	—	1.32	1.50	V
逆回復時間 Reverse Recovery Time	$t_{rr}$	$I_{FM}=1\text{A}$ , $-di/dt=50\text{A}/\mu\text{s}$ , $T_J=25^{\circ}\text{C}$	—	13	25	ns
熱抵抗 Thermal Resistance	$R_{th(j-l)}$	接合部・リード間 Junction to Lead	—	—	23	$^{\circ}\text{C}/\text{W}$
	$R_{th(j-a)}$	接合部・周囲間 Junction to Ambient	—	—	108	$^{\circ}\text{C}/\text{W}$

\*1: アルミナ基板実装/Alumina Substrate mounted (Soldering Lands=  $2 \times 2\text{mm}$ , Both Sides)

## 定格・特性曲線

