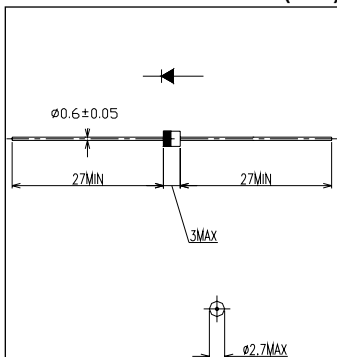


1A Avg. 400 Volts Standard Recovery Diode 10EDA40

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 Output Current	I_O	50Hz 正弦半波抵抗負荷 50Hz half sine wave Resistance load	
		$T_a=39^{\circ}\text{C}^{*1}$	1.0 A
		$T_a=26^{\circ}\text{C}^{*2}$	0.9 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}	45 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)



Approx Net Weight:0.17g

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}	$T_j=25^{\circ}\text{C}$, $I_{FM}=1\text{A}$	—	—	1.0	V
熱抵抗 Thermal Resistance	$R_{th(j-a)}$	接合部・周囲間 Junction to Ambient				
		プリント基板実装 ^{*1} Single Fin or P.C. Board mounted	—	—	110	$^{\circ}\text{C}/\text{W}$
		単体フィン無し ^{*2} Without Fin or P.C. Board mounted	—	—	140	$^{\circ}\text{C}/\text{W}$

*1: プリント基板実装 / P.C. Board mounted (L=3mm, Print Lands=5×5 mm, 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

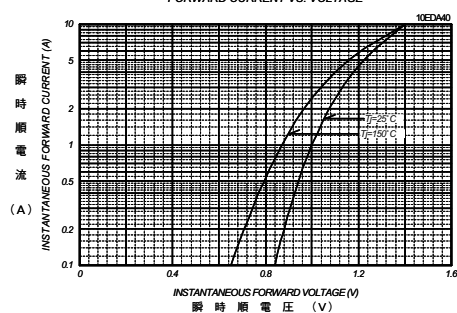


FIG.2

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

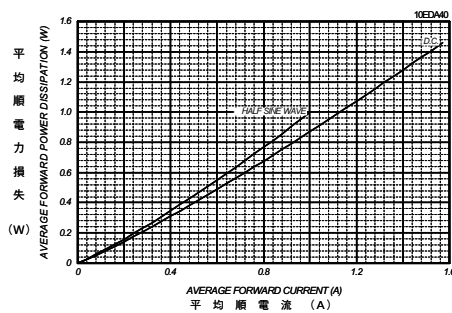


FIG.3

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

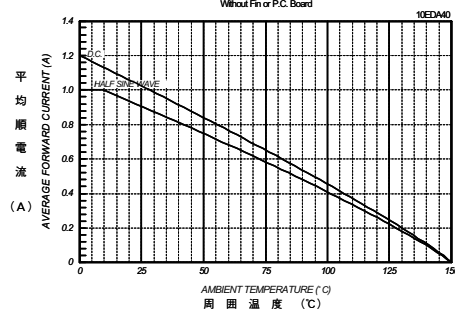


FIG.4

平均順電流一周周囲温度定格
AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE
P.C. Board mounted (L=3mm, Print Lands=5×5mm Both Sides)

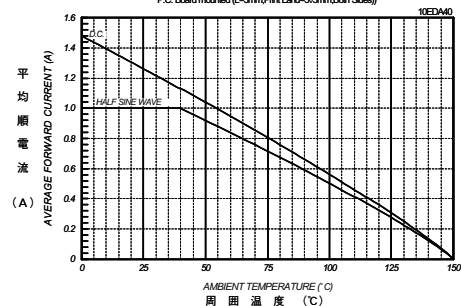


FIG.5

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

