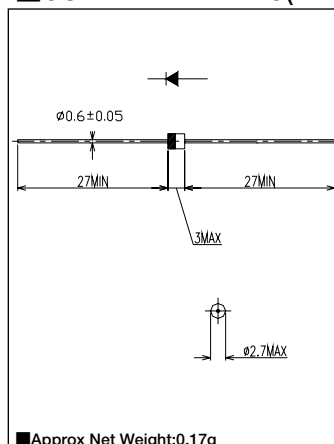


1A Avg. 400 Volts Standard Recovery Diode 10EDB40

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 Finless ^{*2}	—	—	110	$^{\circ}\text{C}/\text{W}$
		単体フィン無し ^{*2}	—	—	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

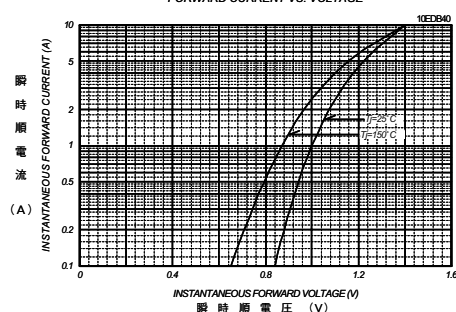


FIG.2

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

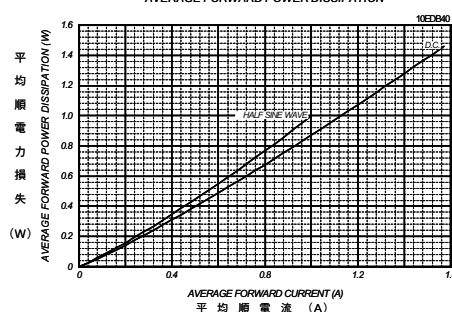


FIG.3

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

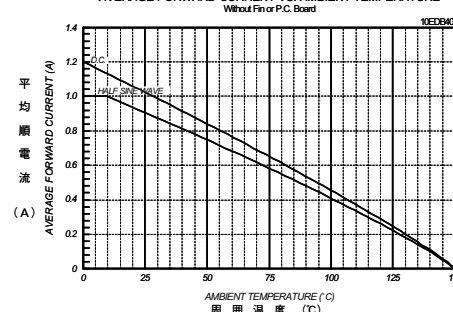


FIG.4

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

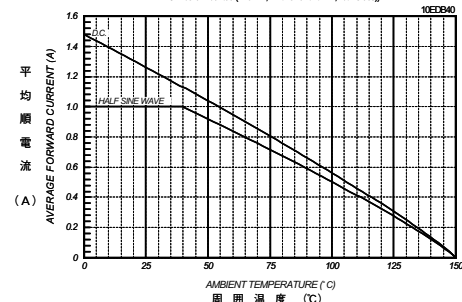


FIG.5

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

