

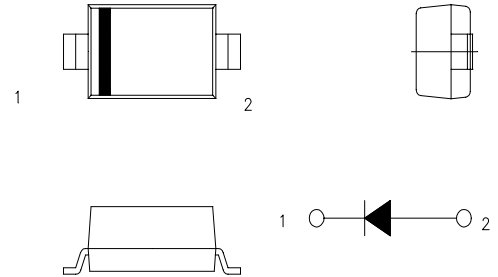
# DIODE Type : EP05DA40

**Electrostatic Discharge Reinforcement Type**

OUTLINE DRAWING

**FEATURES**

- \* JEDEC SOD-123 Package
- \* Very Low profile 1.1mm Max
- \* High Surge Capability
- \* Low Forward Voltage Drop
- \* Low Reverse Leakage Current
- \* Packaged in 8mm Tape and Reel



**Maximum Ratings**

Approx Net Weight:0.011g

Rating	Symbol	EP05DA40		Unit	
Repetitive Peak Reverse Voltage	$V_{RRM}$	400		V	
Non-repetitive Peak Reverse Voltage	$V_{RSM}$	450		V	
Average Rectified Output Current	$I_O$	0.38	$T_a=25^{\circ}C$ *1	50Hz Half Sine Wave Resistive Load	A
		0.5	$T_l=107^{\circ}C$ Tl: Lead Temperature		
RMS Forward Current	$I_{F(RMS)}$	1.57		A	
Surge Forward Current	$I_{FSM}$	25	50Hz Half Sine Wave,1cycle Non-repetitive	A	
Operating JunctionTemperature Range	$T_{jw}$	-40 to +150		$^{\circ}C$	
Storage Temperature Range	$T_{stg}$	-40 to +150		$^{\circ}C$	

**Electrical • Thermal Characteristics**

Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	$I_{RM}$	$T_j= 25^{\circ}C, V_{RM}= V_{RRM}$	-	-	10	$\mu A$
Peak Forward Voltage	$V_{FM}$	$T_j= 25^{\circ}C, I_{FM}= 0.5A$	-	-	1.05	V
Electrostatic Discharge	-	$T_j= 25^{\circ}C, C = 150 pF, R = 150 ohm$ *2	-	25	-	kV
Thermal Resistance	$R_{th(j-a)}$	Junction to Ambient *1	-	-	300	$^{\circ}C/W$
	$R_{th(j-l)}$	Junction to Lead	-	-	70	

\*1 Glass Epoxy Substrate Mounted (Soldering Lands=2x2mm,Both Sides)

\*2 Mesured by ESS-630S of NOISE LABORATORY

EP05DA40 OUTLINE DRAWING (Dimensions in mm)

