

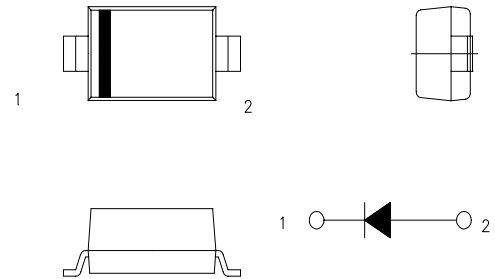
DIODE Type : EP05DA40

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	μA
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)

