

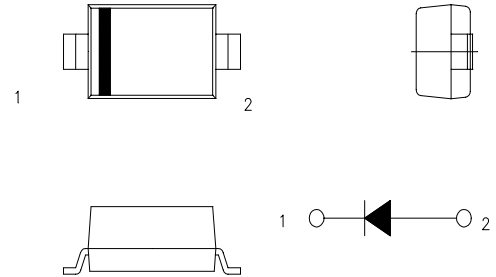
DIODE Type : EP05DA40

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	EC10DA40			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	Ta=25℃ *1	50Hz Half Sine Wave Resistive Load	A
		0.5	Tl=107℃ 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			℃
Storage Temperature Range	T _{stg}	-40 to +150			℃

Electrical • Thermal Characteristics

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

