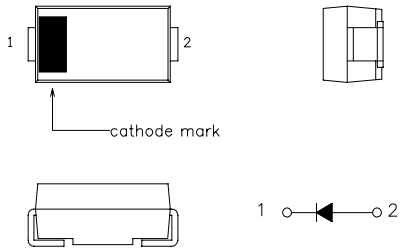
Nihon Inter Electronics Corporation

DIODE Type : EC10DA40

Electrostatic Discharge Reinforcement Type

OUTLINE DRAWING



FEATURES

* Miniature Size,Surface Mount Device
* High Surge Capability
* Low Forward Voltage Drop
* Low Reverse Leakage Current
* Packaged in 12mm Tape and Reel

Maximum Ratings

Approx Net Weight:0.06g

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	0.76	Ta=25 ℃ *1	50Hz Half Sine Wave Resistive Load	A
		1.0	Ta=29 ℃ *2		
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}	Tj= 25℃, V_{RM}= V_{RRM}		-	-	10	μA
Peak Forward Voltage	V_{FM}	Tj= 25℃, I_{FM}= 1.0A		-	-	1.05	V
Electrostatic Discharge	-	Tj= 25℃, C = 150 pF, R = 150 ohm *3		-	25	-	kV
Thermal Resistance	$Rth_{(j-a)}$	Junction to Ambient	*1	-	-	157	℃ /W
			*2	-	-	108	

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

*2 Alumina Substrate Mounted (Soldering Lands=2x2mm,Both Sides)

*3 Mesured by ESS-630S of NOISE LABORATORY

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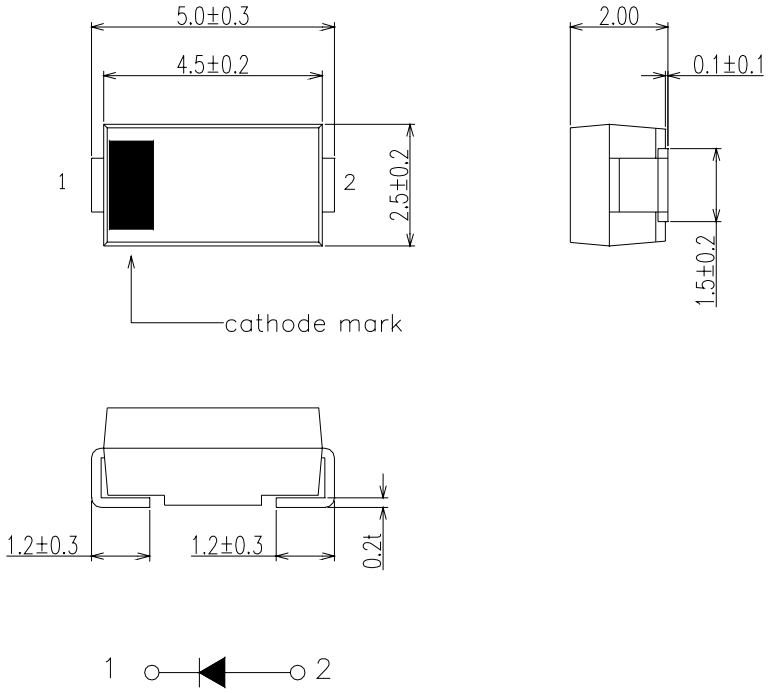
EC10DA40 OUTLINE DRAWING (Dimensions in mm)



SOLDERING PAD