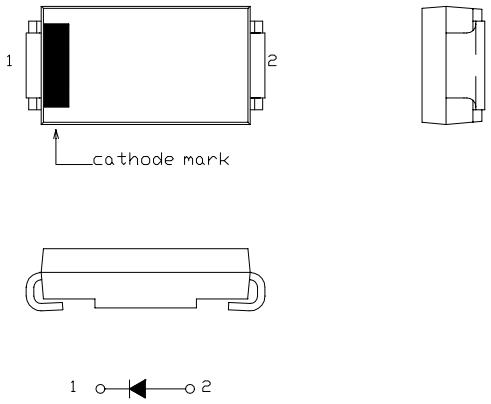
Nihon Inter Electronics Corporation

DIODE Type : NSD03A10

OUTLINE DRAWING



FEATURES

* **FLAT-PAK** Surface Mount Device
* High Surge Capability
* Low Forward Voltage Drop
* Low Reverse Leakage Current
* Packaged in 16mm Tape and Reel
* Not Rolling During Assembly

Maximum Ratings

Approx Net Weight:016g

Rating	Symbol	NSD03A10			Unit
Repetitive Peak Reverse Voltage	V_{RRM}	100			V
Average Rectified Output Current	I_O	1.57	Ta=25 ℃ *1	50Hz Half Sine Wave Resistive Load	A
		3.0	T1=108 ℃ *2		
RMS Forward Current	$I_{F(RMS)}$	4.71			A
Surge Forward Current	I_{FSM}	80	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}	-	-	50	μA
Peak Forward Voltage	V_{FM}	Tj= 25℃, I_{FM}= 3.0A	-	-	1.0	V
Thermal Resistance	$Rth_{(j-a)}$	Junction to Ambient *1	-	-	89	℃/W
	$Rth_{(j-l)}$	Junction to Lead	-	-	13	

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

*2 Tl= Lead Temperature

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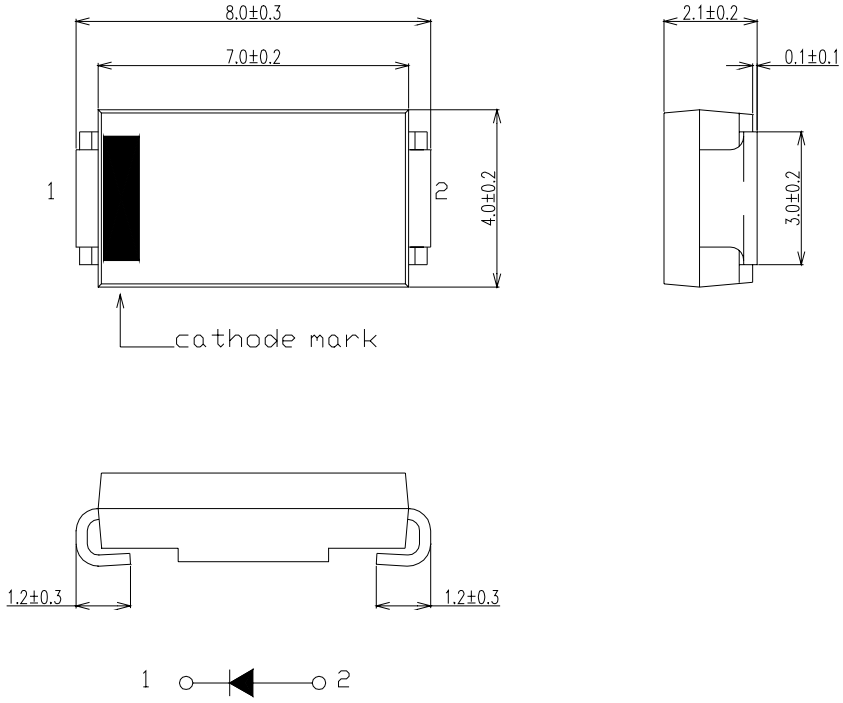
NSD03A10 OUTLINE DRAWING (Dimensions in mm)



SOLDERING PAD