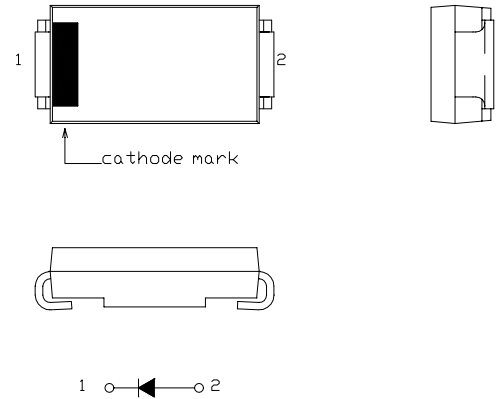


OUTLINE DRAWING

DIODE Type : NSD03A10

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 °C *1	50Hz Half Sine Wave Resistive Load	A
		3.0	T1=108 °C *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			°C
Storage Temperature Range	T _{stg}	-40 to +150			°C

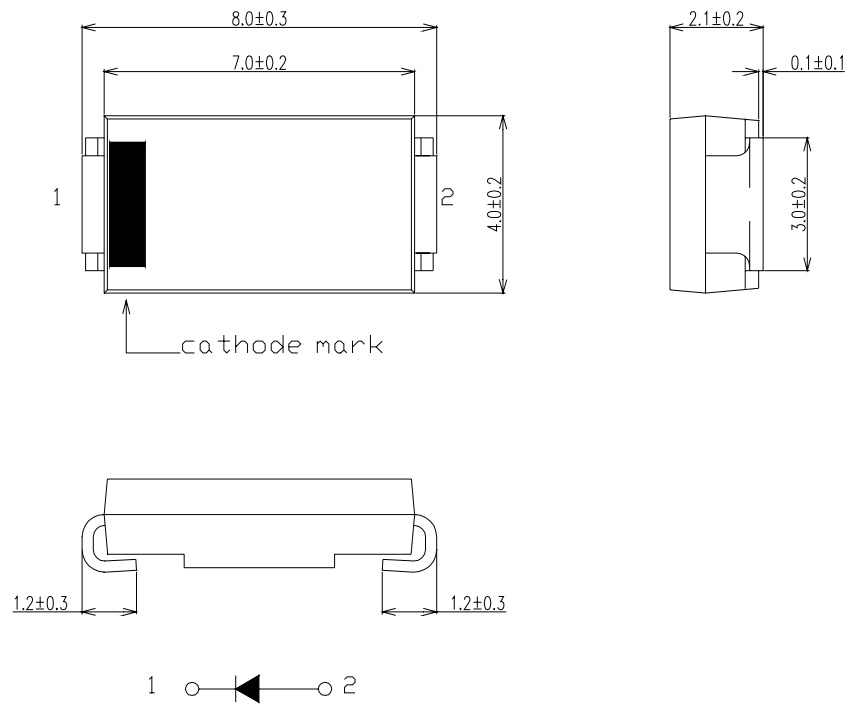
Electrical • Thermal Characteristics

Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	I_{RM}	$T_j=25\text{ }^{\circ}\text{C}$, $V_{RM}=V_{RRM}$	-	-	50	μA
Peak Forward Voltage	V_{FM}	$T_j=25\text{ }^{\circ}\text{C}$, $I_{FM}=3.0\text{A}$	-	-	1.0	V
Thermal Resistance	$R_{th(j-a)}$	Junction to Ambient *1	-	-	89	$^{\circ}\text{C}/\text{W}$
	$R_{th(j-l)}$	Junction to Lead	-	-	13	

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

*2 T_1 = Lead Temperature

NSD03A10 OUTLINE DRAWING (Dimensions in mm)



SOLDERING PAD

