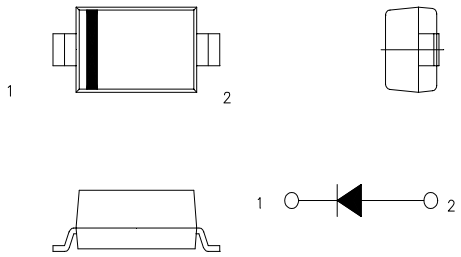
Nihon Inter Electronics Corporation

SBD Type : EP10QY03

FEATURES

* JEDEC SOD-123 Package
* Very Low profile 1.1mm Max
* Extremely Low Forward Voltage Drop
* Low Power Loss,High Efficiency
* High Surge Capability
* Low Thermal Resistance
* Packaged in 8mm Tape and Reel

OUTLINE DRAWING



Maximum Ratings

Approx Net Weight:0.011g

Rating	Symbol	EP10QY03			Unit
Repetitive Peak Reverse Voltage	V_{RRM}	30			V
Direct Forward Current	I_{dc}	1.0	Tl=125℃ *	Direct Current	A
		1.0	Ta=54℃		
Average Rectified Output Current	I_O	0.8	Tl=124℃	Rectangular Current	A
		0.8	Ta=56℃		
Surge Forward Current	I_{FSM}	12	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}	-	-	1	mA
Peak Forward Voltage	V_{FM}	Tj= 25℃, I_{FM}= 1.0A	-	-	0.47	V
Thermal Resistance	$Rth_{(j-a)}$	Junction to Ambient *	-	-	270	℃/W
	$Rth_{(j-l)}$	Junction to Lead	-	-	70	

* Glass Epoxy Substrate Mounted (Soldering Lands=1x1mm,Both Sides)
(Tl: Lead Temperature)

EP10LA03 OUTLINE DRAWING (Dimensions in mm)

