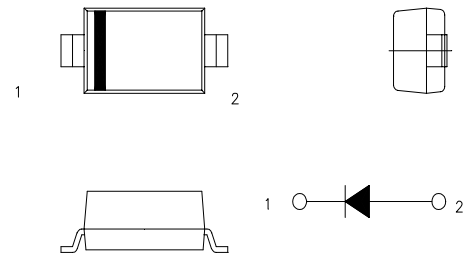


# SBD Type : EP10QY03

## 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	$T_l=125^{\circ}C$ *	Direct Current	A
		1.0	$T_a=54^{\circ}C$		
Average Rectified Output Current	$I_O$	0.8	$T_l=124^{\circ}C$	Rectangular Current	A
		0.8	$T_a=56^{\circ}C$		
Surge Forward Current	$I_{FSM}$	12	50Hz Half Sine Wave, 1cycle Non-repetitive		A
Operating Junction Temperature Range	$T_{jw}$	-40 to +150			$^{\circ}C$
Storage Temperature Range	$T_{stg}$	-40 to +150			$^{\circ}C$

## Electrical • Thermal Characteristics

Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	$I_{RM}$	$T_j= 25^{\circ}C, V_{RM}= V_{RRM}$	-	-	1	mA
Peak Forward Voltage	$V_{FM}$	$T_j= 25^{\circ}C, I_{FM}= 1.0A$	-	-	0.47	V
Thermal Resistance	$R_{th(j-a)}$	Junction to Ambient *	-	-	270	$^{\circ}C/W$
	$R_{th(j-l)}$	Junction to Lead	-	-	70	

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

EP10LA03 OUTLINE DRAWING (Dimensions in mm)

