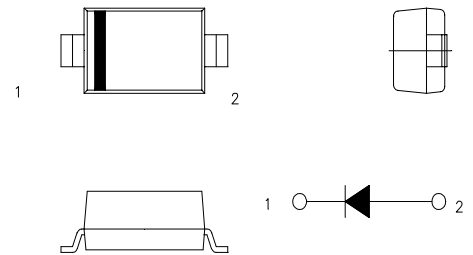


SBD Type : EP10QY03

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

Electrical • Thermal Characteristics

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

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

EP10LA03 OUTLINE DRAWING (Dimensions in mm)

