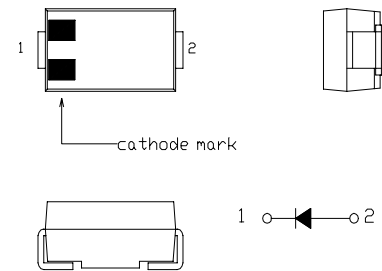


# SBD Type : EC21QS06

## FEATURES

- \* Miniature Size, Surface Mount Device
- \* Low Forward Voltage Drop
- \* Low Power Loss, High Efficiency
- \* High Surge Capability
- \* 30 Volts through 100Volts Types Available
- \* Packaged in 12mm Tape and Reel
- \* Not Rolling During Assembly

## OUTLINE DRAWING



## Maximum Ratings

Approx Net Weight: 0.06g

Rating	Symbol	EC21QS06			Unit
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	60			V
Non- repetitive Peak Reverse Voltage	V <sub>RSM</sub>	65			V
Average Rectified Output Current	I <sub>o</sub>	1.0	Ta=35 °C *1	50Hz Half Sine Wave Resistive Load	A
		2.0	Tl=90 °C		
RMS Forward Current	I <sub>F(RMS)</sub>	3.14			A
Surge Forward Current	I <sub>FSM</sub>	40	50Hz Half Sine Wave,1cycle Non-repetitive		A
Operating JunctionTemperature Range	T <sub>jw</sub>	-40 to +150			°C
Storage Temperature Range	T <sub>stg</sub>	-40 to +150			°C

## Electrical • Thermal Characteristics

Characteristics		Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current		$I_{RM}$	$T_j = 25^\circ\text{C}$ , $V_{RM} = V_{RRM}$	-	-	2	mA
Peak Forward Voltage		$V_{FM}$	$T_j = 25^\circ\text{C}$ , $I_{FM} = 2.0\text{A}$	-	-	0.61	V
Thermal Resistance	Junction to Ambient	$R_{th(j-a)}$	Alumina Substrate Mounted *1	-	-	108	$^\circ\text{C}/\text{W}$
	Junction to Lead	$R_{th(j-l)}$	-	-	-	23	

\*1 Alumina Substrate Mounted (Soldering Lands=2x2mm, Both Sides)  
( $T_l$ : Lead Temperature)

# EC21QS06 OUTLINE DRAWING (Dimensions in mm)

