

# SDB240R

**Schottky Barrier Rectifier** 

### **Applications**

- Low voltage, high frequency inverters
- Free wheeling and polarity protection

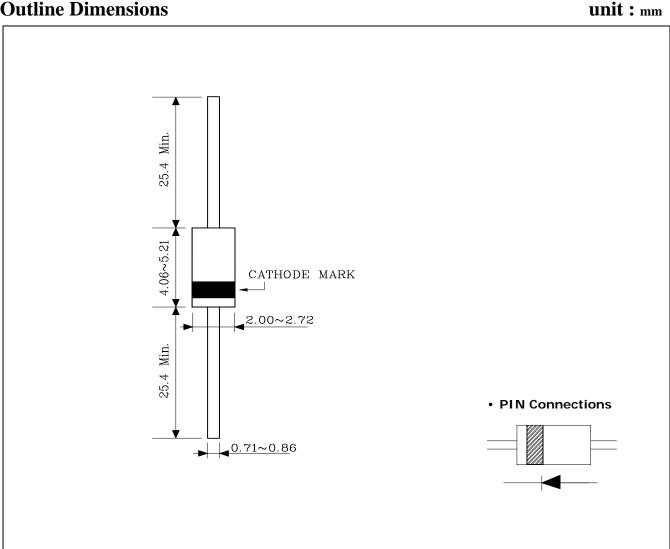
#### **Features**

- Guardring for overvoltage protection
- Low forward voltage, Low reverse current: V<sub>FM</sub>=0.55V Max. I<sub>RRM</sub>=0.5mA Max.
- Low power loss and high efficiency

## **Ordering Information**

Type No.	Marking	Package Code		
SDB240R	SB240	DO-41		

### **Outline Dimensions**



KSD-D4A001-000

# SDB240R

**Absolute Maximum Ratings** 

(Ta=25°C)

Characteristic	Symbol	Rating	Unit
Repetitive peak reverse voltage	$V_{RRM}$	40	V
Average rectified output current	Io	2	А
Peak surge forward current (Non-repetitive 60Hz sine wave)	I <sub>FSM</sub>	60	А
Junction temperature	TJ	150	°C
Storage temperature range	T <sub>stg</sub>	-55 ~ 150	°C

## **Electrical Characteristics**

(Ta=25°C)

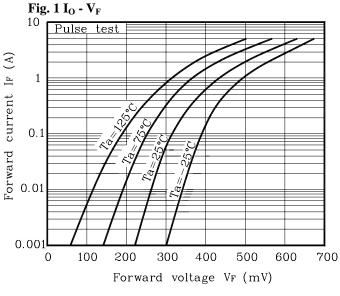
Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Peak forward voltage	V <sub>FM</sub> <sup>1)</sup>	I <sub>F</sub> =2A	-	1	0.55	V
Repetitive peak reverse current	I <sub>RRM</sub>	V <sub>R</sub> =40V	-	-	0.5	mA
Total capacitance	Ст	V <sub>R</sub> =4V, f=1.0MHz	-	100	-	pF
Thermal resistance	R <sub>th</sub> <sup>2)</sup>	Junction to ambient	-	50		°C/W

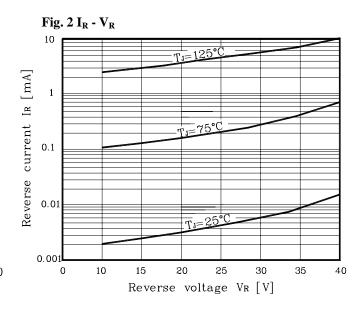
<sup>1)</sup> Pulse test :  $t_P \le 380 \,\mu\text{s}$ , Duty cycle  $\le 2\%$ 

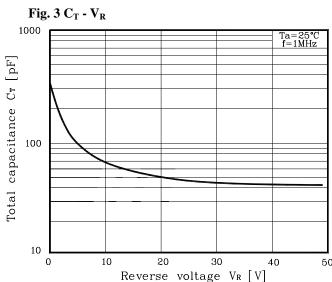
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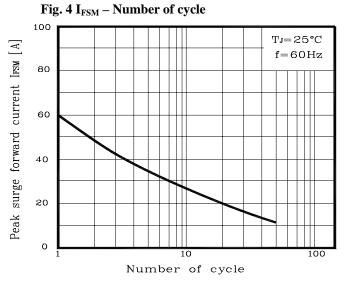
<sup>2)</sup> Tested under junction to ambient at 0.375"(9.5mm)lead length, P.C.B. mounted

#### **Electrical Characteristic Curves**









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