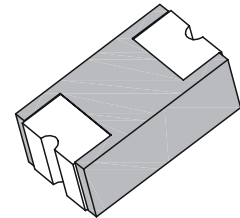


## 100mA Low Profile Chip Schottky Rectifier

### Features

- Low profile with SMD package
- Low power loss , High efficiency
- High current capability, Low voltage drop
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- RoHS compliant



C0805  
(SOD-323)



### Mechanical Data

<b>Case:</b>	0805 SMD package, Molded plastic body
<b>Terminals:</b>	Pure Tin plated, solderable per MIL-STD-750, Method 2026
<b>Polarity</b>	Laser cathode band marking
<b>Weight:</b>	0.005 gram

### Maximum Ratings *(T<sub>Ambient</sub>=25°C unless noted otherwise)*

Symbol	Description	TSCD012WS	TSCD014WS	Unit	Conditions
	Marking Code	F2	F4		
<b>VRRM</b>	Repetitive Peak Reverse Voltage	20	40	V	
<b>VRWM</b>	Working Peak Reverse Voltage	20	40	V	
<b>IF(AV)</b>	Forward Rectified Current	100		mA	
<b>IFSM</b>	Non-repetitive Peak Forward Surge Current	2.0		A	8.3ms single half sine-wave
<b>TJ</b>	Operating Junction temperature range	-40 to +125		° C	
<b>TSTG</b>	Storage Temperature Range	-40 to +125		° C	

### Electrical Characteristics *(T<sub>Ambient</sub>=25°C unless noted otherwise)*

Symbol	Description	TSCD012WS	TSCD014WS	Unit	Conditions
<b>VF</b>	Forward Voltage	0.45	0.50	V	IF= 100 mA
<b>IR</b>	Reverse Current	30		µA	

# 100mA Low Profile Chip Schottky Rectifier

## TSCD012WS-TSCD014WS

### Typical Characteristics Curves

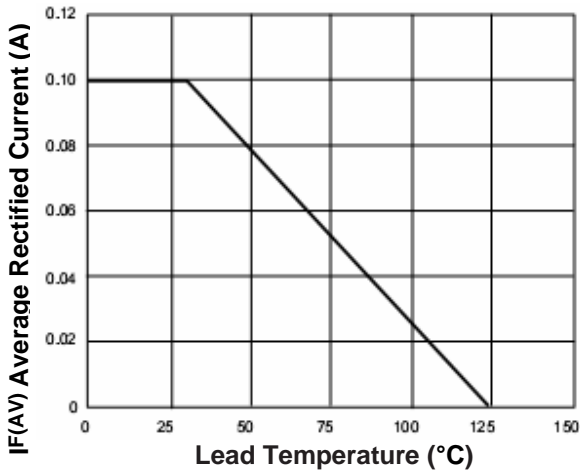


Fig.1- Forward Current Derating Curve

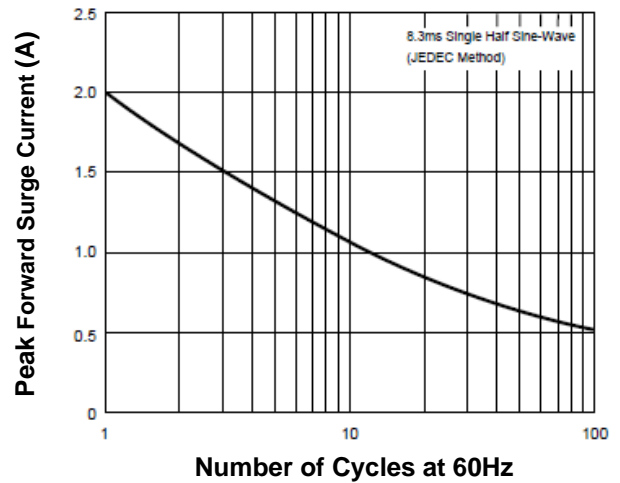
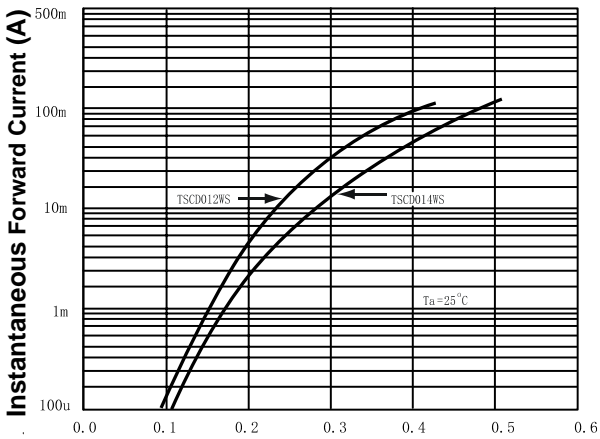
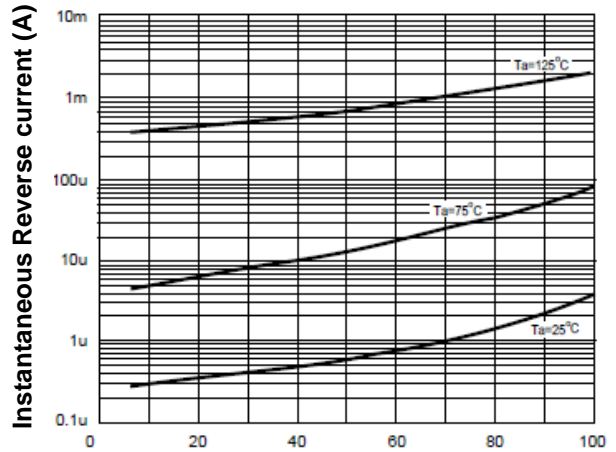


Fig.2- Max. Non-Repetitive Forward Surge Current



Instantaneous Forward Voltage (V)  
Fig.3- Typical Forward Characteristics



Percent of Rated Peak Reverse Voltage (%)  
Fig.4- Typical Reverse Characteristics

# 100mA Low Profile Chip Schottky Rectifier

## TSCD012WS-TSCD014WS

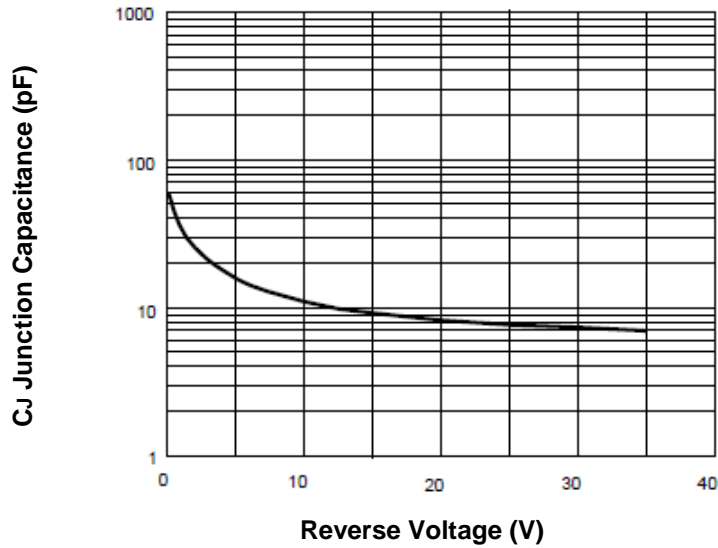
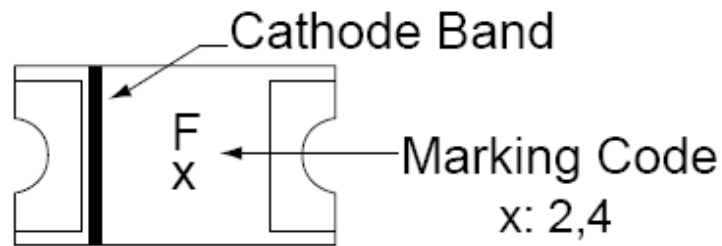


Fig.5-Typical junction capacitance

### Marking Information:

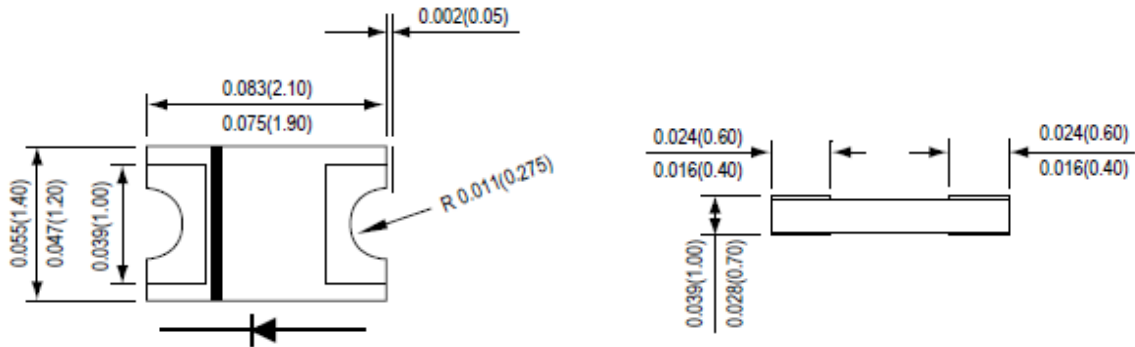


# 100mA Low Profile Chip Schottky Rectifier

## TSCD012WS-TSCD014WS

### Dimensions in inch (mm)

#### C0805 (SOD-323)



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