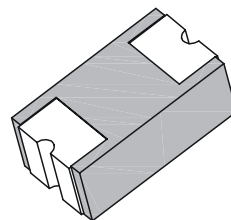


100mA Low Profile Chip Schottky Rectifier

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

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

Maximum Ratings ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

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

Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

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

100mA Low Profile Chip Schottky Rectifier

TSCD012WS-TSCD014WS

Typical Characteristics Curves

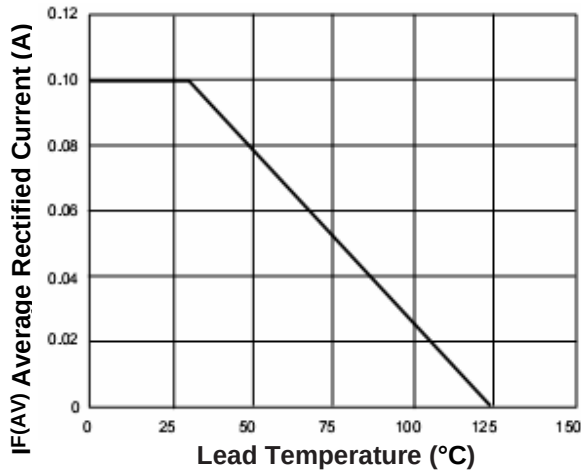


Fig.1- Forward Current Derating Curve

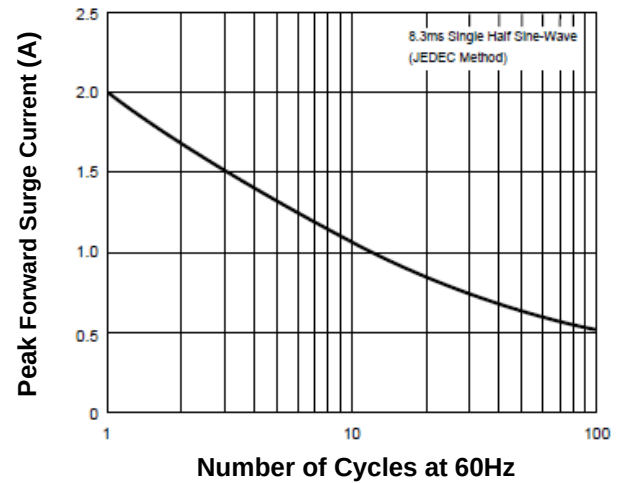
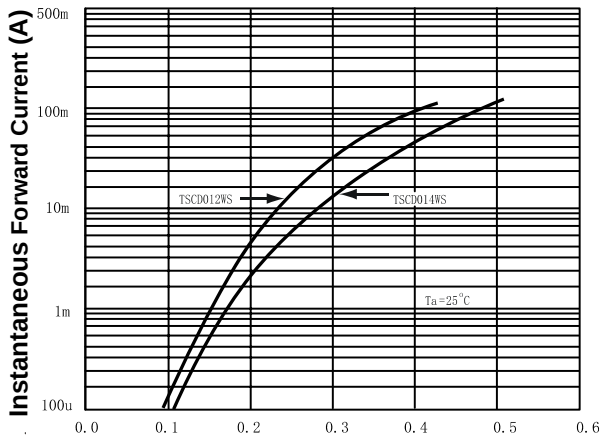
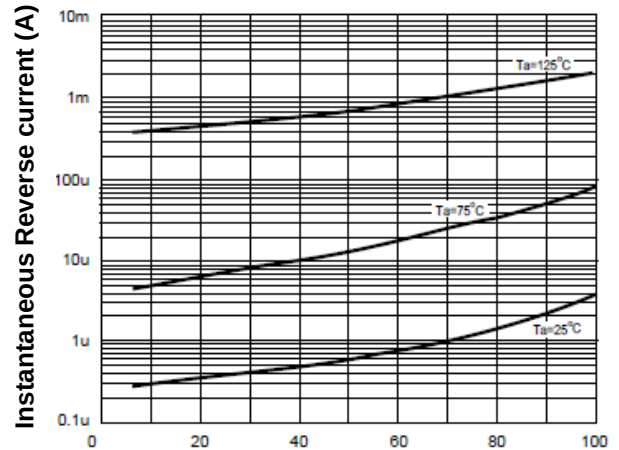


Fig.2-Max. Non-Repetitive Forward Surge Current



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

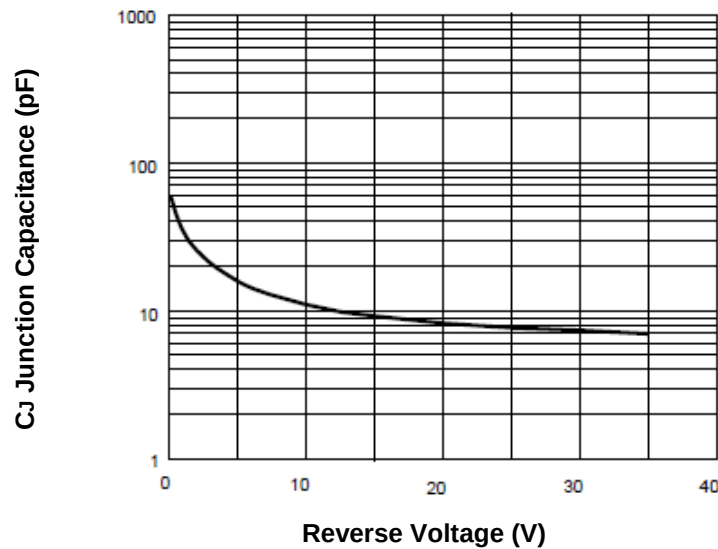
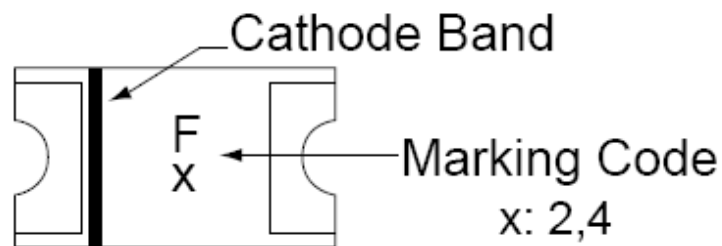


Fig.5-Typical junction capacitance

Marking Information:

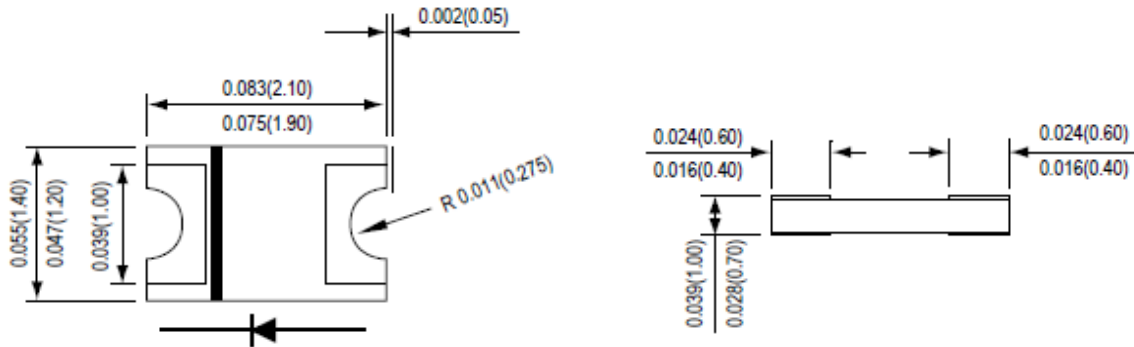


100mA Low Profile Chip Schottky Rectifier

TSCD012WS-TSCD014WS

Dimensions in inch (mm)

C0805 (SOD-323)



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