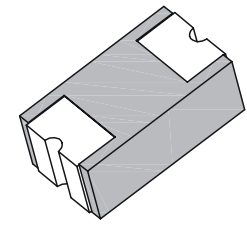


500mA Low Profile Chip Schottky Rectifier

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	TSCD052WS	TSCD053WS	TSCD054WS	Unit	Conditions
	Marking Code	B2	B3	B4		
VRRM	Repetitive Peak Reverse Voltage	20	30	40	V	
VDC	Maximum DC Blocking Voltage	14	21	28	V	
VRWM	Working Peak Reverse Voltage	20	30	40	V	
IF(AV)	Forward Rectified Current	500			mA	
IFSM	Non-repetitive Peak Forward Surge Current	5.0			A	8.3ms single half sine-wave
TJ	Operating Junction temperature range	-40 to +125			$^{\circ}C$	
TSTG	Storage Temperature Range	-40 to +125			$^{\circ}C$	

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

Symbol	Description	TSCD052WS	TSCD053WS	TSCD054WS	Unit	Conditions
VF	Forward Voltage	0.44	0.46	0.48	V	IF= 500 mA
IR	Reverse Current	100			μA	

500mA Low Profile Chip Schottky Rectifier

TSCD052WS-TSCD054WS

Typical Characteristics Curves

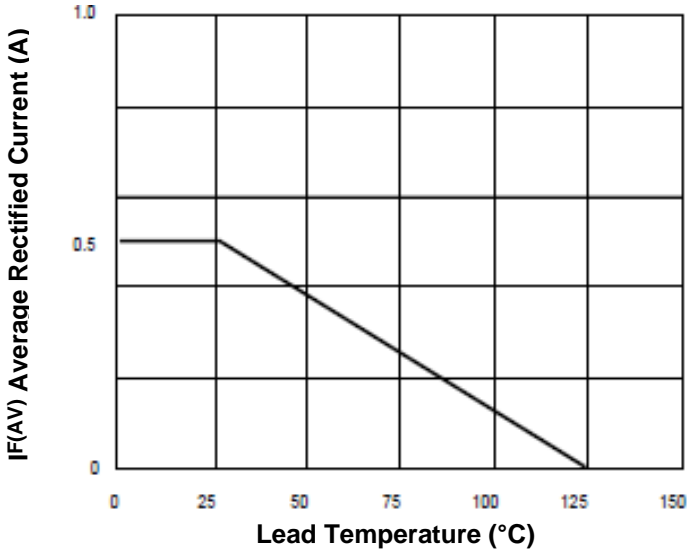


Fig.1- Forward Current Derating Curve

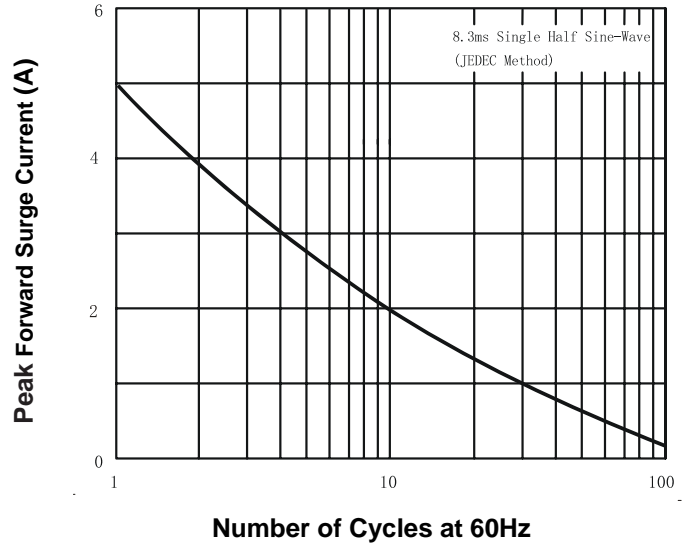


Fig.2- Max. Non-Repetitive Forward Surge Current

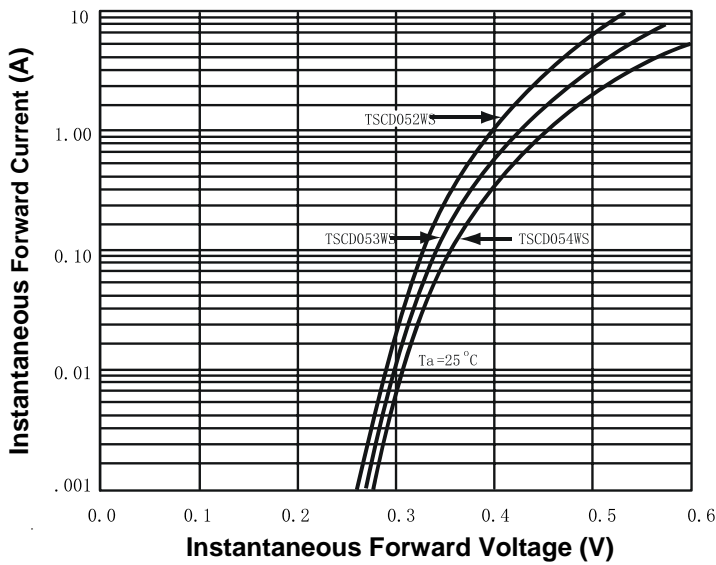


Fig.3- Typical Forward Characteristics

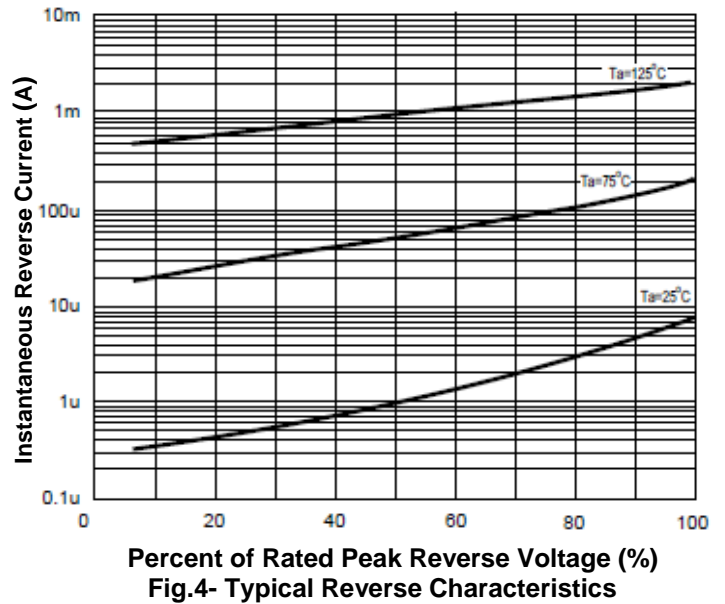


Fig.4- Typical Reverse Characteristics

500mA Low Profile Chip Schottky Rectifier

TSCD052WS-TSCD054WS

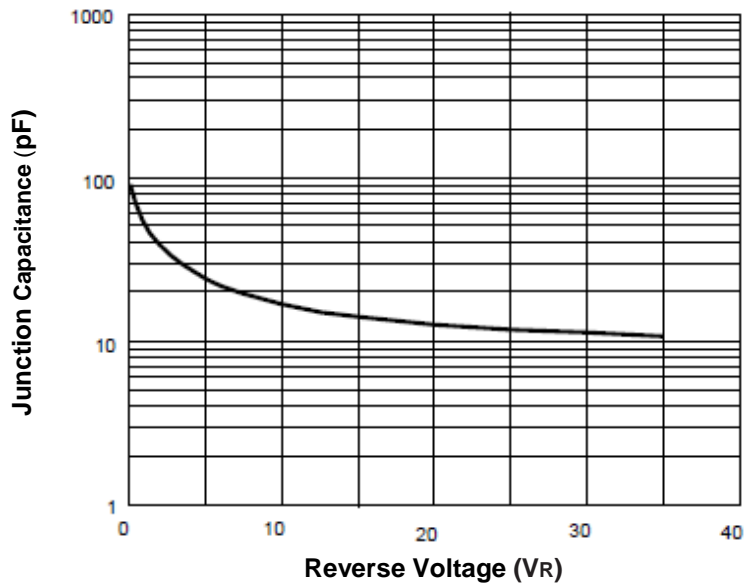
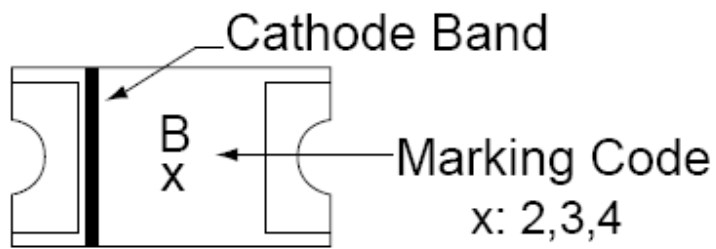


Fig.5- Typical Junction Capacitance

Marking Information:

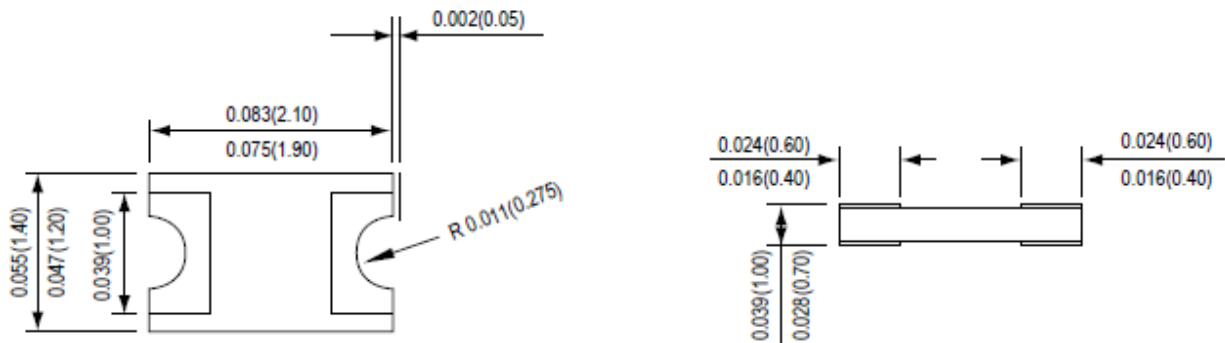


500mA Low Profile Chip Schottky Rectifier

TSCD052WS-TSCD054WS

Dimensions in inch (mm)

C0805 (SOD-323)



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