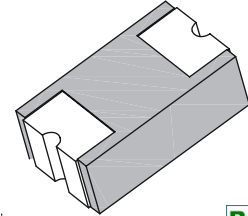


1.0A Low Profile Chip Schottky Rectifier

Features

- Low Profile with Chip Package for Surface Mount Application
- Low Power Loss , High Efficiency
- High Surge Current Capability
- Super Very Low Forward Voltage
- Plastic Package has Underwriters Laboratory Flammability Classification 94V-0
- RoHS Compliant



**C2010
(SMA)**



Mechanical Data

Case:	2010 SMD package (Equivalent to SMA), Plastic Molding
Terminals:	Pure Tin plated, solderable per MIL-STD-750, Method 2026
Polarity	Laser cathode band marking
Weight:	0.02 gram

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

Symbol	Description	TSCDA12L	TSCDA14L	TSCDA16L	Unit	Conditions
	Marking Code	S12L	S14L	S16L		
VR	Reverse Voltage	14	28	42	V	
VRRM	Repetitive Peak Reverse Voltage	20	40	60	V	
IF(AV)	Forward Rectified Current	1.0			A	See Fig 1
IFSM	Non-repetitive Peak Forward Surge Current	30			A	JEDEC Method
TJ	Operating Junction temperature range	-55 to +125			° C	
TSTG	Storage Temperature Range	-55 to +150			° C	

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

Symbol	Description	TSCDA12L	TSCDA14L	TSCDA16L	Unit	Conditions
VF	Forward Voltage (Note)	0.36	0.38	0.50	V	IF= 1.0 A
IR	Reverse Current @ VR= Max. VRRM (Note)	1.0			mA	Tj = 25 °C
		30				Tj = 80 °C
CJ	Typical Junction Capacitance	120			pF	f=1.0 MHz and Vr = 4.0 V
Rθ-JA	Maximum Thermal Resistance	55			° C/W	PCB mounted with copper pad area of 0.2" x 0.2" (5x5mm)
Rθ-JL		17				

1.0A Low Profile Chip Schottky Rectifier

TSCDA12L-TSCDA16L

Note: Pulse test: Pulse width=300 μ s, 1% duty cycle.

Typical Characteristics Curves

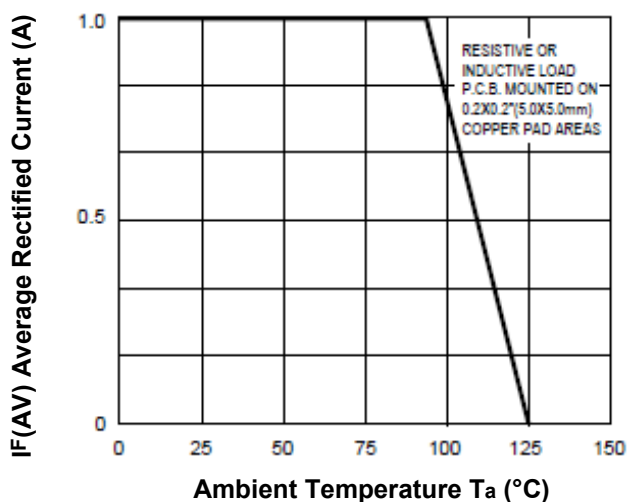


Fig.1- Forward Current Derating Curve

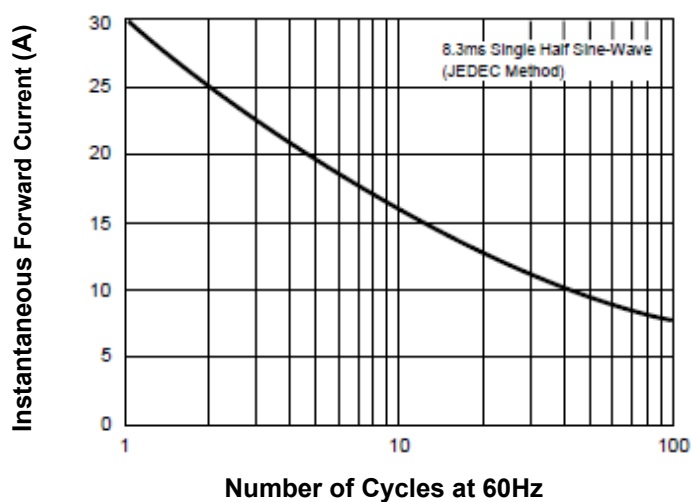


Fig.2- Max. Non-Repetitive Forward Surge Current

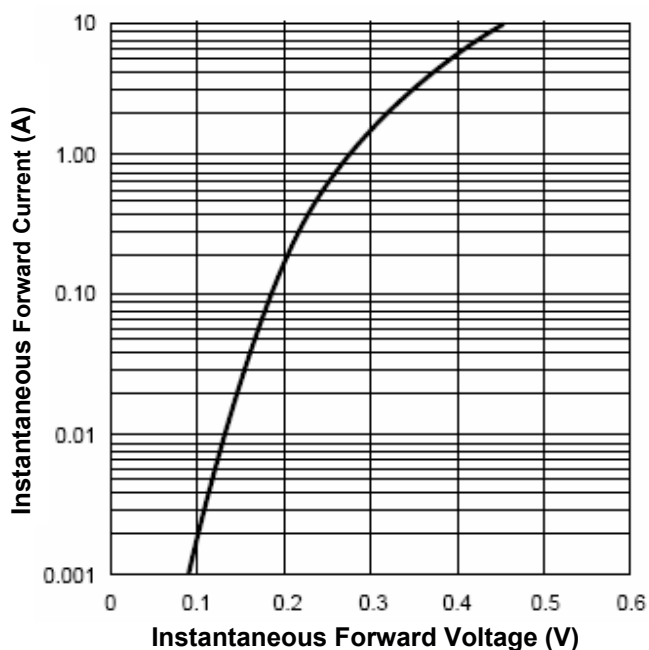


Fig.3- Typical Forward Characteristics

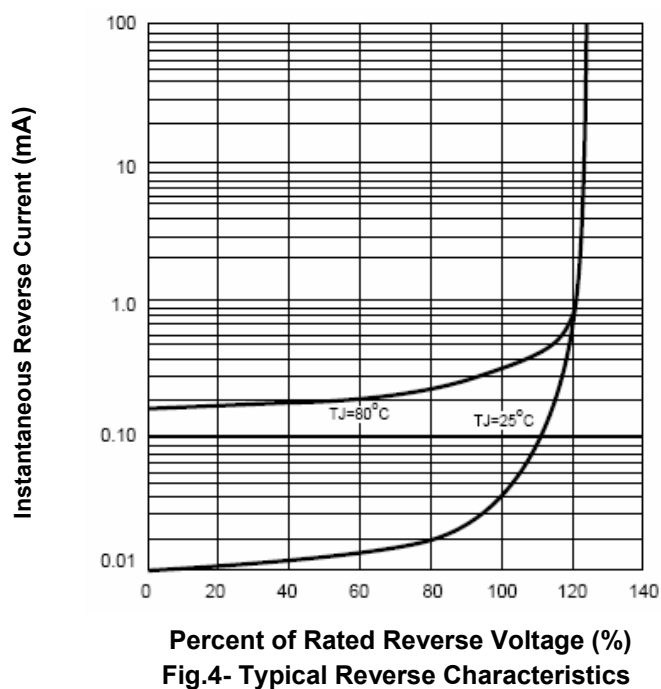


Fig.4- Typical Reverse Characteristics

1.0A Low Profile Chip Schottky Rectifier

TSCDA12L-TSCDA16L

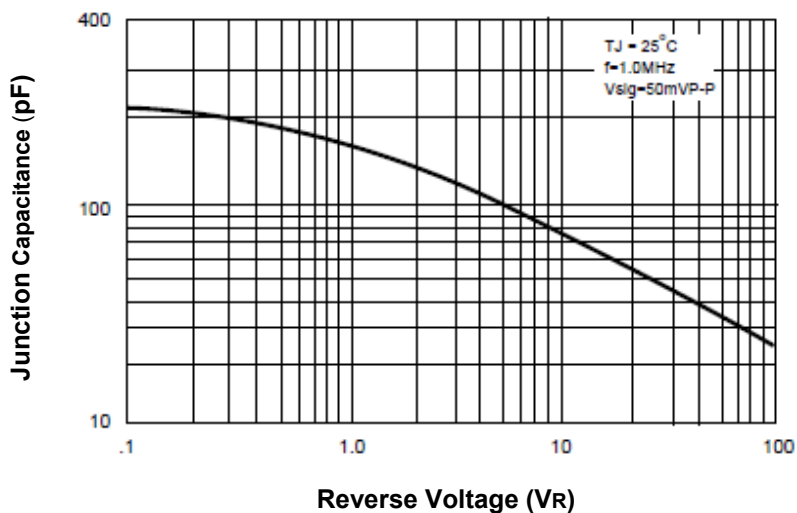
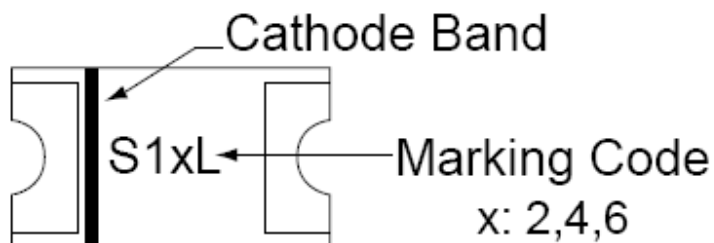
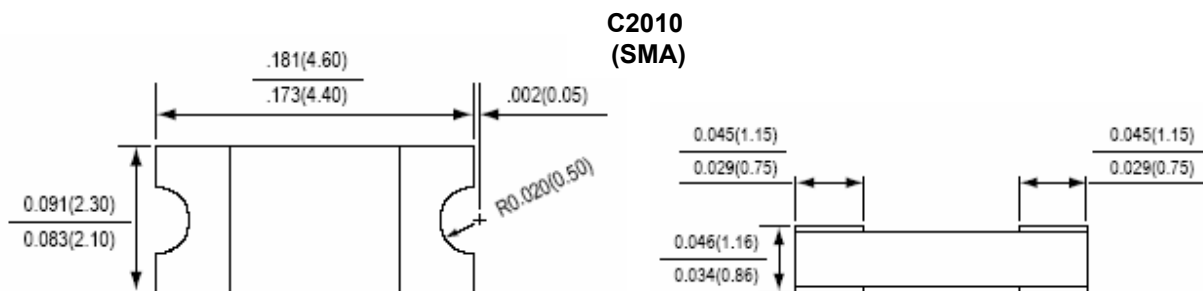


Fig.5- Typical Junction Capacitance

Marking Information:



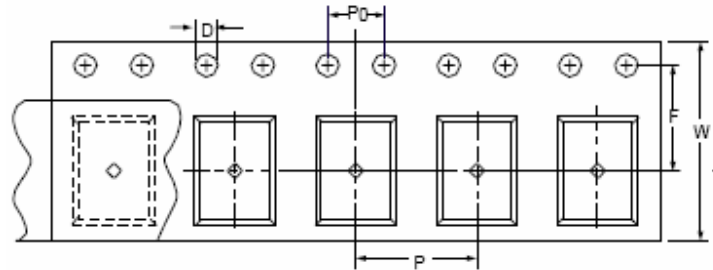
Dimensions in inch (mm)



1.0A Low Profile Chip Schottky Rectifier

TSCDA12L-TSCDA16L

Taping Information (in mm)



Product Type	Tape Size	D	P0	P	W	F
2010	12	1.50±0.10	4.00±0.10	4.00±0.10	120.0±0.30	5.50±0.05

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