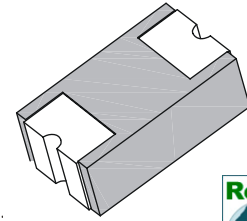


3.0A Low Profile Chip Schottky Rectifier

Features

- Low Profile Package, Build-in Strain Relief
- 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:	Packed with FRP substrate and epoxy underfilled
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)

Symbols	Description	TSCDA32	TSCDA34	TSCDA36	TSCDA310	Unit
	Marking Code	S32	S34	S36	S310	
VRRM	Max. Recurrent Peak Reverse Voltage	20	40	60	100	V
VRMS	Max. RMS Voltage	14	28	42	70	V
VDC	Max. DC Blocking Voltage	20	40	60	100	V
Io(AV)	Max. Average Forward Rectified Current (FIG.1)	3.0				A
IFSM	Peak Forward Surge Current (Note1)	80				A
VF	Max. Instantaneous Forward Voltage at 3.0A (Note2)	0.50		0.70	0.85	V
IR	Max. DC Reverse Current at Rated DC Blocking Voltage @Ta=25°C	0.2				mA
RθJL	Typical Thermal Resistance, Junction to Lead (Note3)	17.0				°C/W
TJ	Operating Junction Temperature Range	-55 to +125		-55 to +150		°C
TSTG	Storage Temperature Range	-55 to +150				°C

- Note: 1. 8.3ms single half sine-wave superimposed on rated load (JEDEC method)
 2. Pulse Test with PW = 300 μsec, 1% Duty Cycle.
 3. P.C.B. mounted 5.0 x 5.0mm (0.2 x 0.2") copper pad areas.

3.0A Low Profile Chip Schottky Rectifier

TSCDA32-TSCDA310

Typical Characteristics Curves

Fig.1- Forward Current Derating Curve

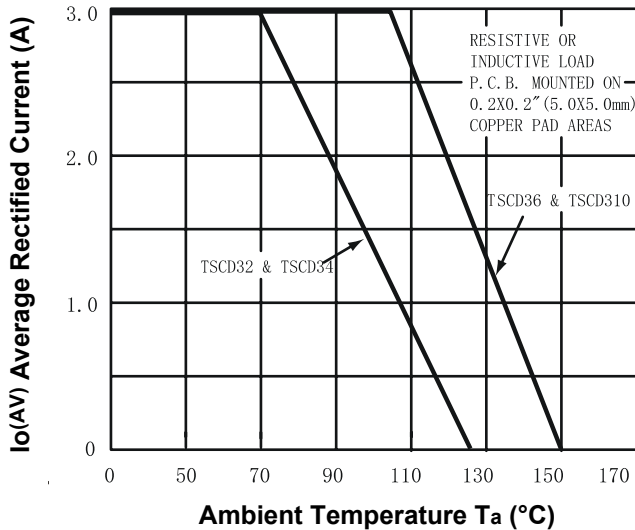


Fig.2-Max. Non-Repetitive Forward Surge Current

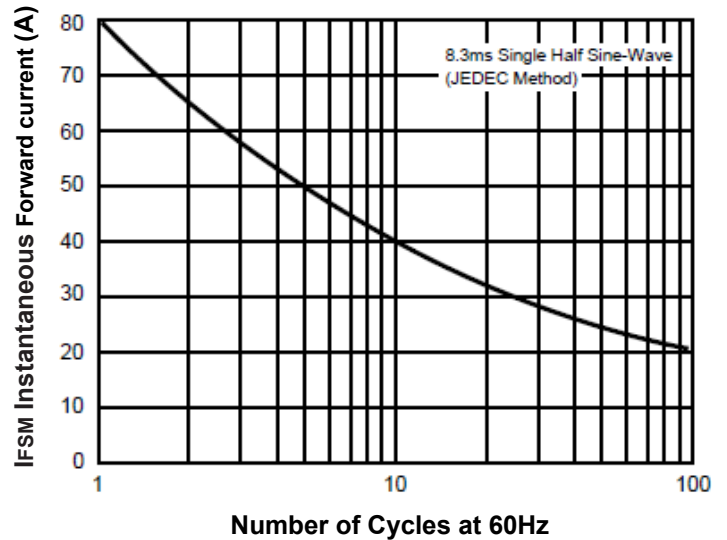


Fig.3- Typical Forward Characteristics

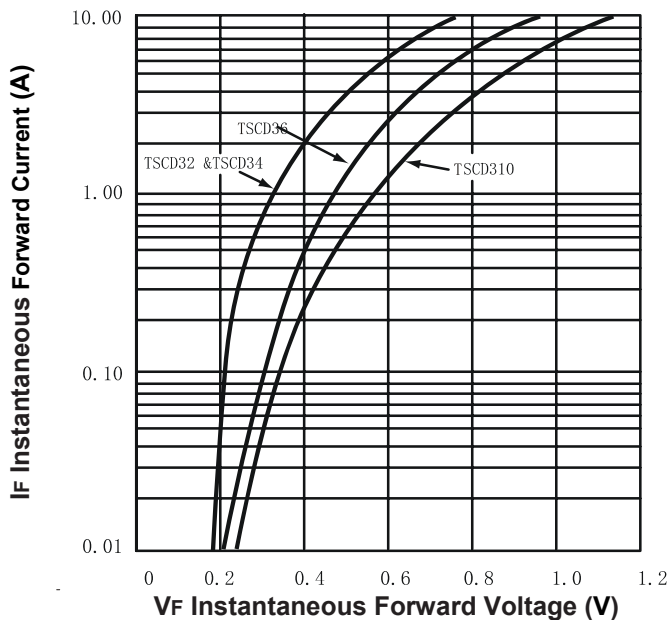
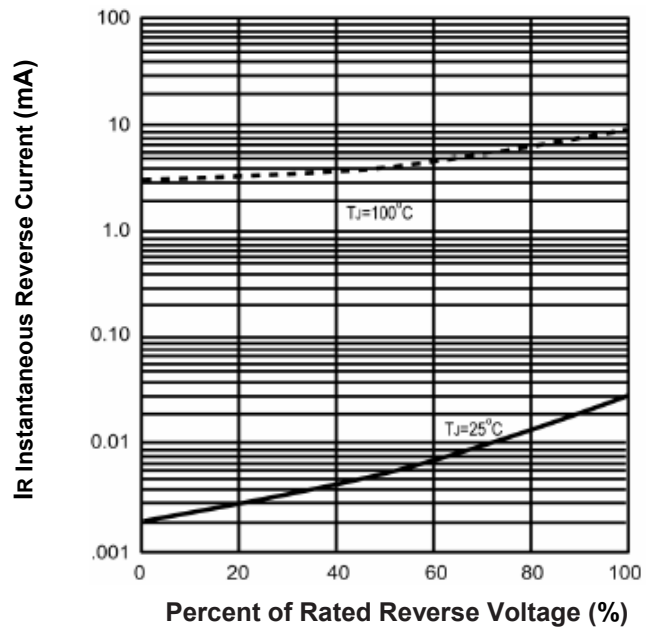


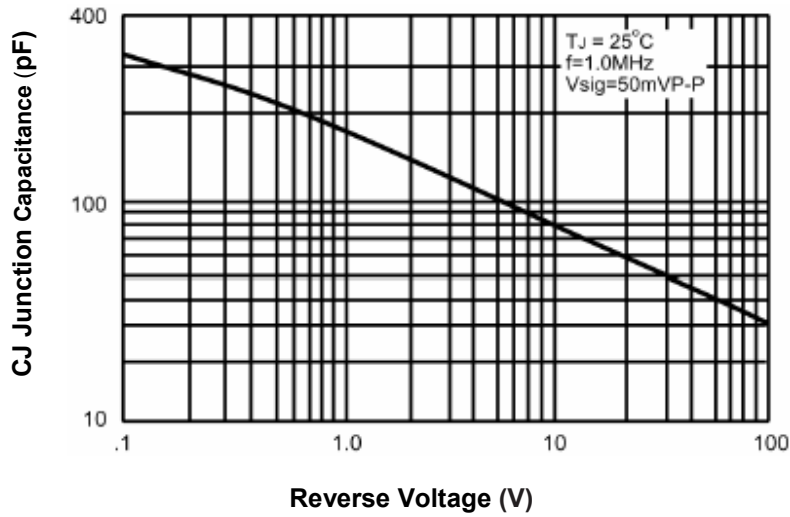
Fig.4- Typical Reverse Characteristics



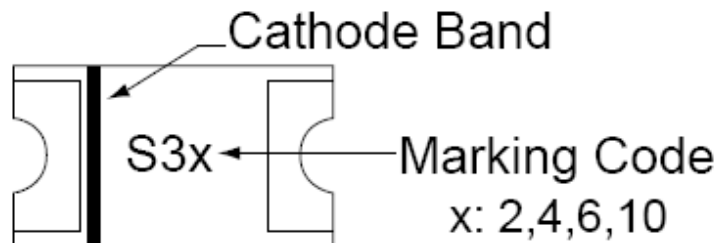
3.0A Low Profile Chip Schottky Rectifier

TSCDA32-TSCDA310

Fig.5- Typical Junction Capacitance



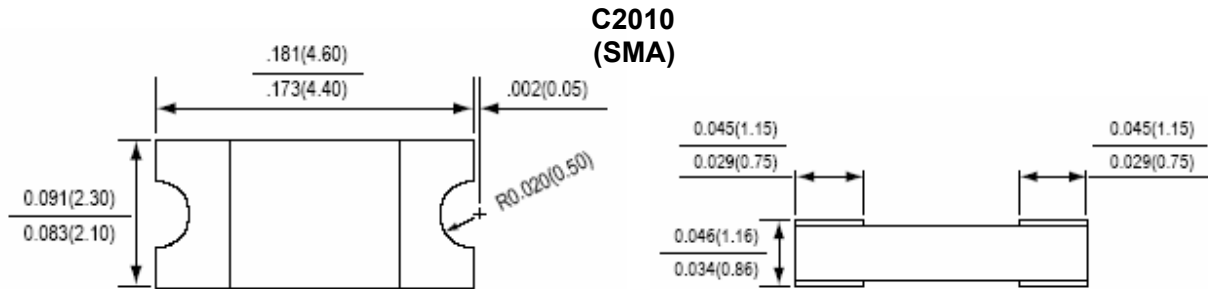
Marking Information:



3.0A Low Profile Chip Schottky Rectifier

TSCDA32-TSCDA310

Dimensions in inch (mm)



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