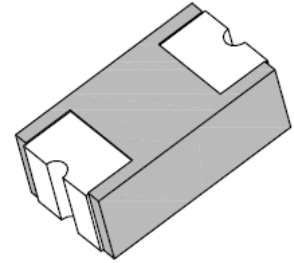


2A Low Profile Chip Schottky Rectifier

Features

- Lead less chip form, no lead damage
- Lead-free solder joint, no wire bond & lead frame
- Low power loss, High efficiency
- High current capability, Low voltage drop
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- RoHS compliant



C1206
(SOD-123)



Application

- Switching mode power supply applications
- Portable equipment battery applications
- General rectification
- DC/DC Converter
- Telecommunication

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:	0.012 gram

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

Symbol	Description	TSCD22W	TSCD24W	TSCD26W	TSCD210W	Unit	Conditions
	Marking Code	L2	L4	L6	L10		
VRRM	Maximum Repetitive Peak Reverse Voltage	20	40	60	100	V	
IF(AV)	Average Forward Rectified Current	2.0				A	
IFSM	Peak Forward Surge Current	40				A	8.3ms single half sine-wave
TJ	Operating Junction temperature range	-55 to +125		-55 to +150		° C	
TSTG	Storage Temperature Range	-55 to +150				° C	

2A Low Profile Chip Schottky Rectifier

TSCD22W - TSCD210W

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

Symbol	Description	Min.	Typ.	Max.	Unit	Conditions
V_F	Instantaneous Forward Voltage Drop (Note 1)	-	0.36	-	V	I _F =0.5A
			0.43	-		I _F =1.0A
			0.47	0.50		I _F =2.0A
		-	0.40	-	V	I _F =0.5A
			0.48	-		I _F =1.0A
			0.58	0.70		I _F =2.0A
		-	0.55	-	V	I _F =0.5A
			0.65	-		I _F =1.0A
			0.75	0.85		I _F =2.0A
I_R	Repetitive Peak Reverse Current	-	0.03	0.2	mA	V _R =Max. V _{RRM}
C_J	Typical Junction Capacitance	-	115	-	pF	V _R =4V, f=1MHz
R_{θJA}	Thermal Resistance Junction to Ambient	-	75	-	° C/W	Note 2
R_{θJL}	Thermal Resistance Junction to Lead	-	17	-	° C/W	Note 2

Note: 1. Pulse test width PW=300μS, 1% duty cycle.
2. Mounted on P.C. board with 0.2x0.2" (5.0x5.0mm) copper pad areas.

Typical Characteristics Curves

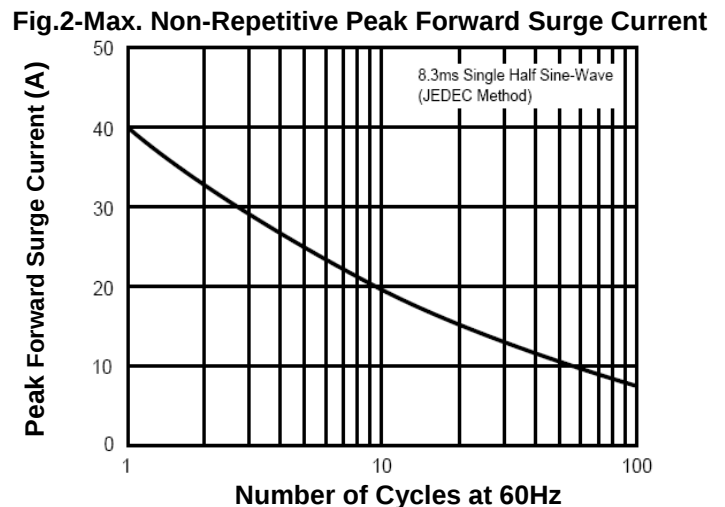
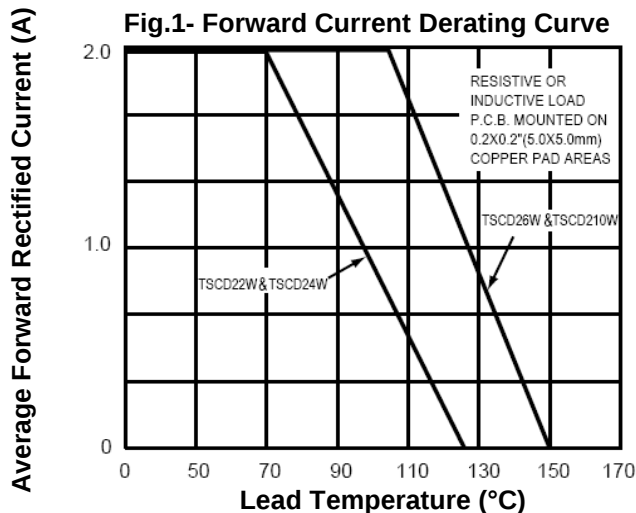


Fig.3- Typical Instantaneous Forward Characteristics

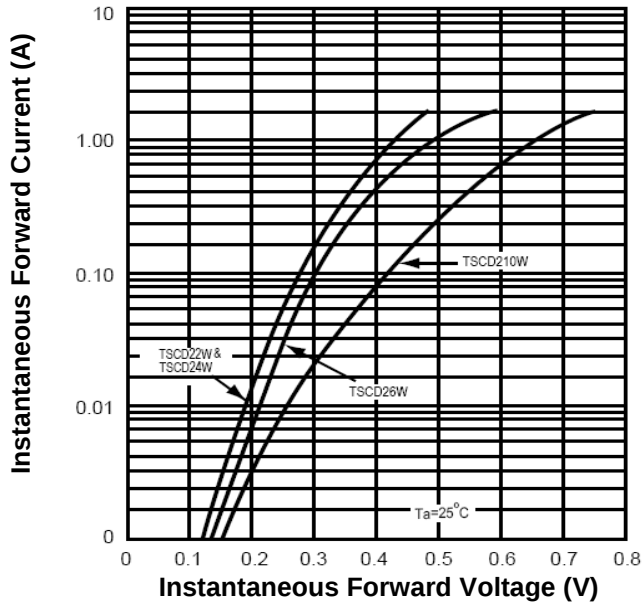


Fig.4- Typical Reverse Characteristics

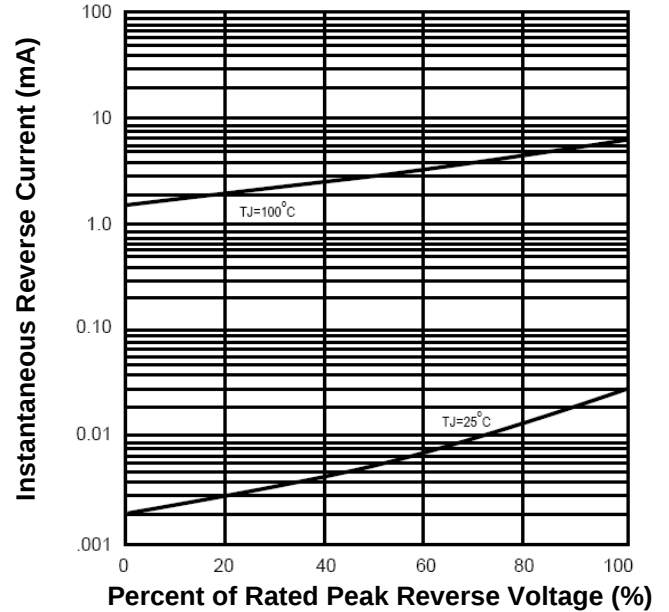
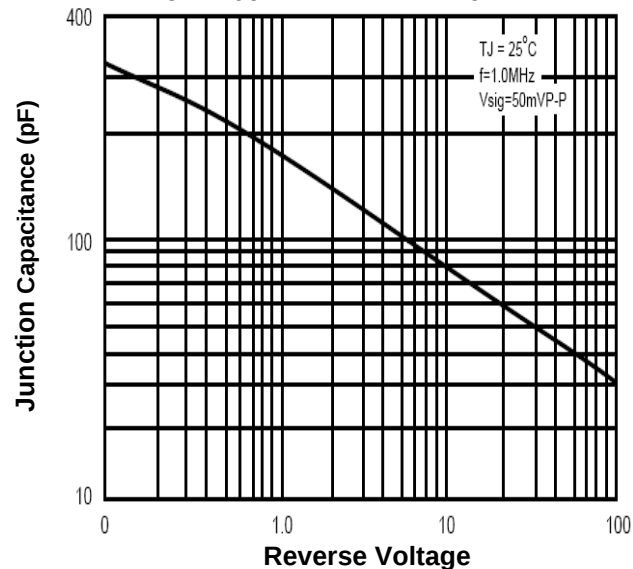


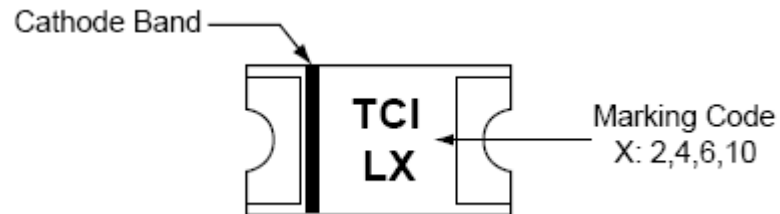
Fig.5- Typical Junction Capacitance



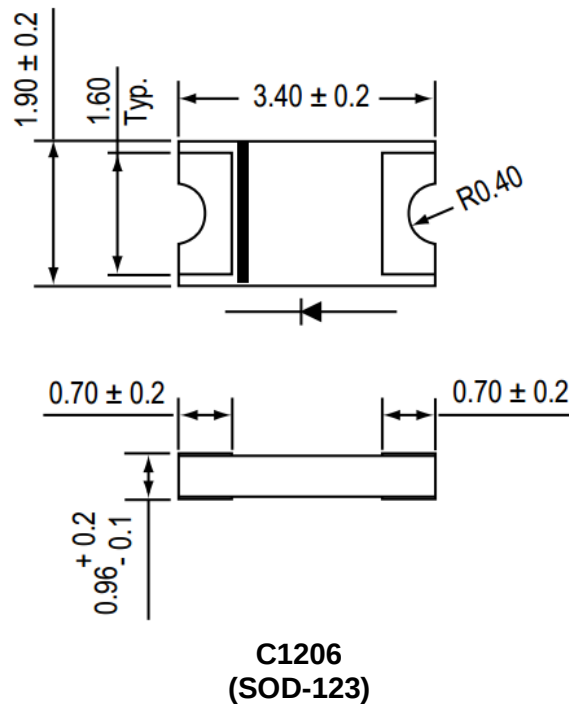
2A Low Profile Chip Schottky Rectifier

TSCD22W - TSCD210W

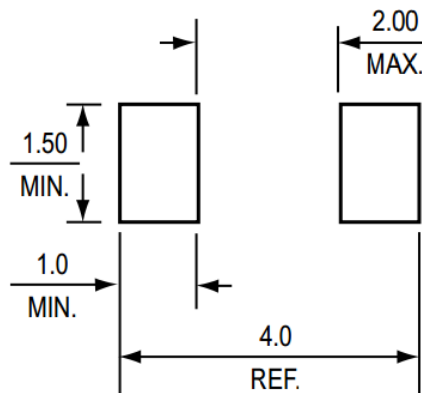
Marking Information:



Dimensions in mm



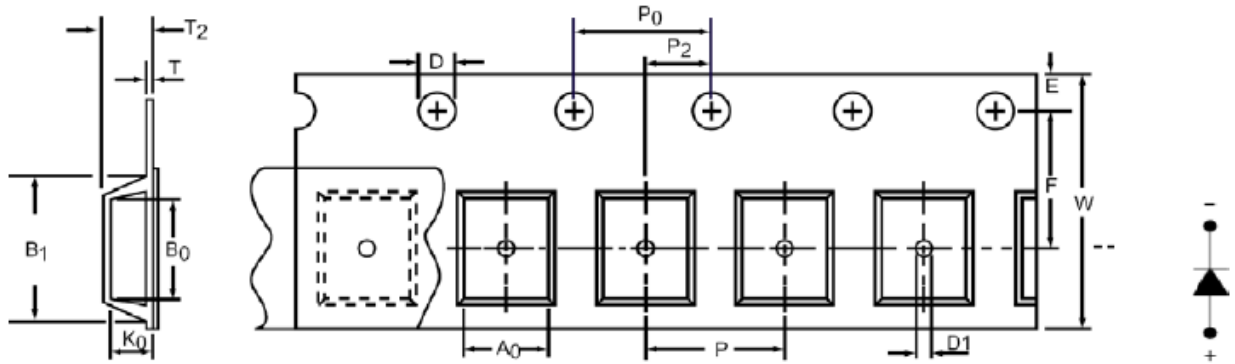
Mounting Pad Layout in mm



2A Low Profile Chip Schottky Rectifier

TSCD22W - TSCD210W

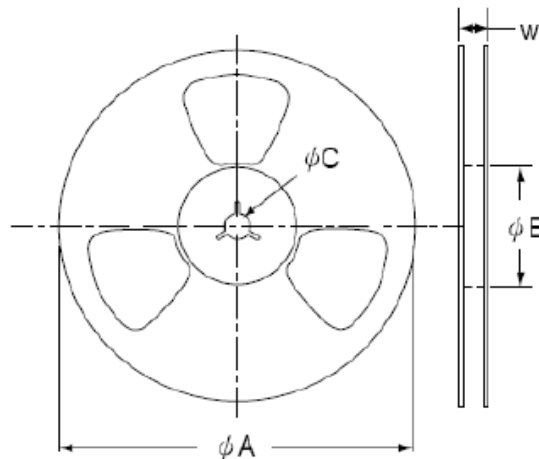
Packing Information in mm



Product Type	A0	B0	K0	D	E	P0	T
	See Note			1.5±0.1	1.75±0.10	4.0±0.1	0.4max.
	P2	B1	D1	F	P	W	T2
C1206	2.0±0.1	8.2max.	1.5min.	5.50±0.05	4.0±0.1	12.0±0.3	1.75±0.10

Note: Symbol A0, B0, K0 are determined by the maximum dimensions of the component size.
The clearance between the component and the cavity must be within
0.05 mm (0.002") min. to 0.50 mm (0.02") max. for 12 mm tape.

Reel Dimensions in mm



Product Type	ΦA	ΦB	ΦC	W
C1206	178.0±2.0	50.0min.	13.0±0.5	18.7max.

2A Low Profile Chip Schottky Rectifier

TSCD22W - TSCD210W

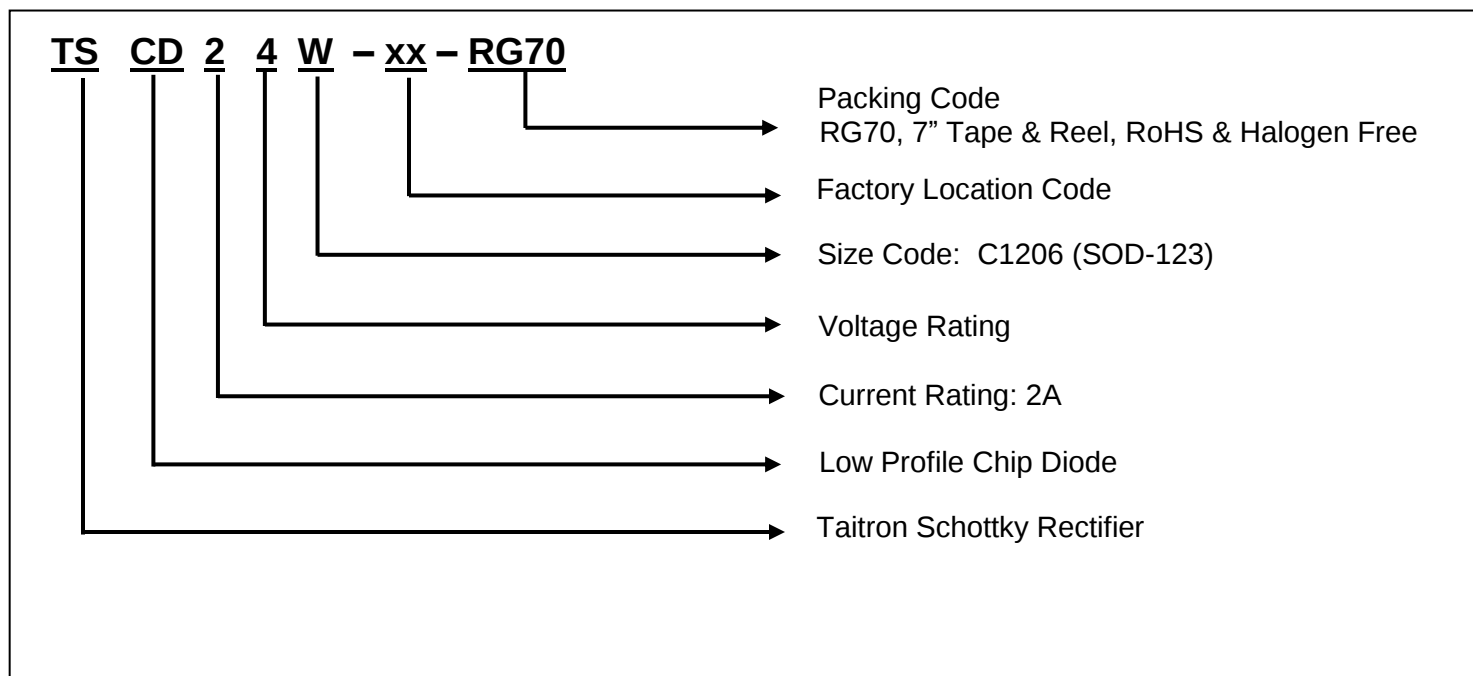
Packing Quantity Information:

Quantity	PCS per Inner Box	PCS per Carton
RG70 Tape & Reel	3,000/Reel	72,000

Carton Size Information:

Cartoon Size
400X207X240 (in mm)

How to Order



2A Low Profile Chip Schottky Rectifier

TSCD22W - TSCD210W

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2A Low Profile Chip Schottky Rectifier

TSCD22W - TSCD210W

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