

Elektronische Bauelemente

SCS4448WS

Surface Mount Fast Switching Diode

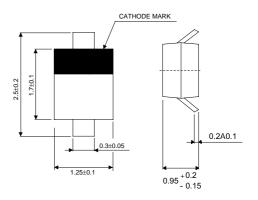
RoHS Compliant Product

A suffix of "-C" specifies halogen & lead-free

SOD-323 (SC-76)

FEATURES

- . Fast switching speed
- . Ultra-Small surface mount package
- . For general purpose switching applications
- . High conductance
- . Also available in lead free version



Marking: T5

MECHANICAL DATA

. Case: SOD-323, Plastic

. Epoxy: UL 94V-0 rate flame retardant

. Metallurgically bonded construction

. Polarity: Color band denotes cathode end

. Mounting position: Any

. Weight: 0.004 grams

MAXIMUM RATINGS

Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

TYPE NUMBER	SYMBOL	VALUE	UNITS	
Non-Repetitive Peak Reverse Voltage	V_{RM}	100	V	
Peak Repetitive Reverse Voltage	V_{RRM}			
Working Peak Reverse Voltage	V_{RWM}	75	V	
DC Blocking Voltage	V_R			
RMS Reverse Voltage	$V_{R(RMS)}$	53	V	
Forward Continuous Current	I _{FM}	500	mA	
Average Rectified Output Current	Io	250	mA	
Non-Repetitive Peak Forward Surge Current @ t = 1.0 μs	I	4.0	А	
@ t = 1.0 s	I _{FSM}	2.0		
Power Dissipation (Note 1)	P_D	200	mW	
Thermal Resistance Junction to Ambient Air (Note 1)	R _{eJA}	625	°C / W	
Operating and Storage Temperature Range	T_J,T_STG	- 65 ~ + 150	$^{\circ}\mathbb{C}$	

http://www.SeCoSGmbH.com/

Any changing of specification will not be informed individual



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●ELECTRICAL CHARACTERISTICS (Ta=25°C)

TYPE NUMBER	SYMBOL	Min.	Max.	UNITS	Test Condition
Reverse Breakdown Voltage	V_{RM}	75	-	V	$I_R = 1.0 \mu A$
Forward Voltage (Note 2)	V_{FM}	-	0.720 0.855 1.0 1.25	V	$I_F = 5.0 \text{mA}$ $I_F = 10 \text{mA}$ $I_F = 100 \text{mA}$ $I_F = 150 \text{mA}$
Peak Reverse Current (Note 2)	I _{RM}	-	2.5 25	μA nA	$V_R = 75V, T_J = 25^{\circ}C$ $V_R = 25V, T_J = 25^{\circ}C$
Total Capacitance	Ст	=	4.0	pF	$V_R = 0$, $f = 1.0MHz$
Reverse Recovery Time	t _{rr}	-	4.0	ns	$I_F = I_R = 10 \text{mA},$ $I_{rr} = 0.1 \text{x } I_R, R_L = 100 \Omega$

NOTES

- 1. Part mounted on FR-4 PC board with recommended pad layout,
- 2. Short duration test pulse used to minimize self-heating effect.

•RATING AND CHARACTERISTIC CURVES

