

200mW SOD-323 SURFACE MOUNT Small Outline Flat Lead Plastic Package High Speed Switching Diode

Absolute Maximum Ratings T_A = 25°C unless otherwise noted

Symbol	Parameter	Value	Units	
P _D	Power Dissipation	200 mW		
T _{STG}	Storage Temperature Range	-65 to +150	to +150 °C	
TJ	Operating Junction Temperature	+150 °C		
V _R	Reverse Voltage	80	V	
V _{RM}	Repetitive Peak Reverse Voltage	90	V	
I _{FM}	Forward Current	250	mA	
Ιo	Continuous Forward Current	150	mA	
I _{FRM}	Repetitive Peak Forward Current	500	mA	
I _{FSM}	Peak Forward Surge Current (Pulse Width=1us)	2	А	

These ratings are limiting values above which the serviceability of the diode may be impaired.

Specification Features:

- High Speed Switching Device (T_{RR} < 4.0 nS)</p>
- General Purpose Diodes
- RoHS Compliant
- Green EMC
- Matte Tin(Sn) Lead Finish
- Band Indicates Cathode
- Weight: approx. 0.004g
- AEC-Q101 Qualified

Electrical Characteristics $T_A = 25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Test Condition	Limits		1114
	Parameter		Min	Max	Unit
Bv	Breakdown Voltage	I _R =100μΑ	80		Volts
I _R	Reverse Leakage Current	V _R =80V		100	nA
V _F	Forward Voltage	I _F =100mA		1.2	Volts
T _{RR}	Reverse Recovery Time	I _F =10mA			
		V _R =6V		4	nS
		R _L =100Ω			
С	Capacitance	$V_R=0.5V$, f=1 M_{HZ}		4	pF

Green Product







ELECTRICAL SYMBOL

DEVICE MARKING CODE:

Device Type	Device Marking	
1SS355	S4	



Typical Performance Characteristics



Total Capacitance

Reverse Voltage (V)



Forward Voltage vs Ambient Temperature

Number: DB-010 April 2019, Revision G









Reverse Voltage, VR (V)



SOD-323 Package Outline



NOTES:

1. The above package outline is similar to JEITA SC-90.

2. Dimensions are exclusive of Burrs, Mold Flash & Tie Bar extrusions.



NOTICE

The information presented in this document is for reference only. Tak Cheong reserves the right to make changes without notice for the specification of the products displayed herein.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Tak Cheong Semiconductor Co., Ltd., or anyone on its behalf, assumes no responsibility or liability for any damagers resulting from such improper use of sale.

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"AEC-Q101 QUALIFIED" Statement:

Tak Cheong has the capabilities to conduct tests for product packages by grouping in selective bases. Tak Cheong reserves the rights for making necessary arrangement for the subject test due to the amount of time and resources involved.