

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

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Parameter	Value	Units				
Power Dissipation	200	mW				
Storage Temperature Range	-65 to +150	°C				
Operating Junction Temperature	+150	°C				
Reverse Voltage	80	V				
Repetitive Peak Reverse Voltage	90	V				
Forward Current	250	mA				
Continuous Forward Current	150	mA				
Repetitive Peak Forward Current	500	mA				
	Parameter Power Dissipation Storage Temperature Range Operating Junction Temperature Reverse Voltage Repetitive Peak Reverse Voltage Forward Current Continuous Forward Current Repetitive Peak Forward Current	Parameter Value Power Dissipation 200 Storage Temperature Range -65 to +150 Operating Junction Temperature +150 Reverse Voltage 80 Repetitive Peak Reverse Voltage 90 Forward Current 250 Continuous Forward Current 150				

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)
- General Purpose Diodes
- Flat Lead SOD-323 Small Outline Plastic Package
- Surface Device Type Mounting
- RoHS Compliant
- Green EMC
- Matte Tin(Sn) Lead Finish
- Band Indicates Cathode

DEVICE MARKING CODE:

Device Type	Device Marking
1SS355	S4

Electrical Characteristics

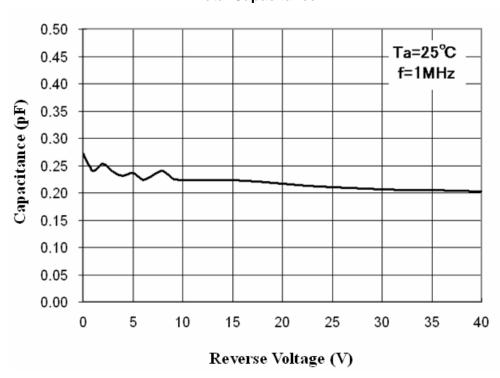
T_A = 25°C unless otherwise noted

Symbol	Parameter	Test Condition	Limits		Unit
Эуппоп			Min	Max	Oilit
Ву	Breakdown Voltage	I _R =100μA	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 =0.5 V , f=1 M_{HZ}		4	pF

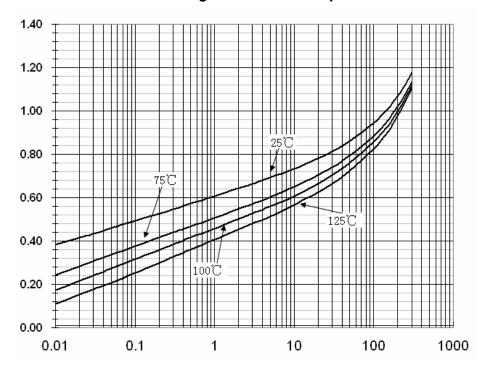


Typical Performance Characteristics

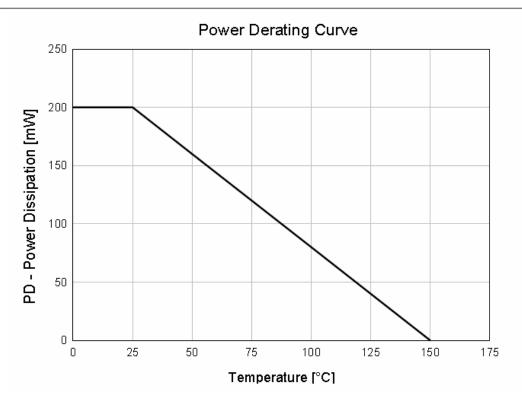
Total Capacitance



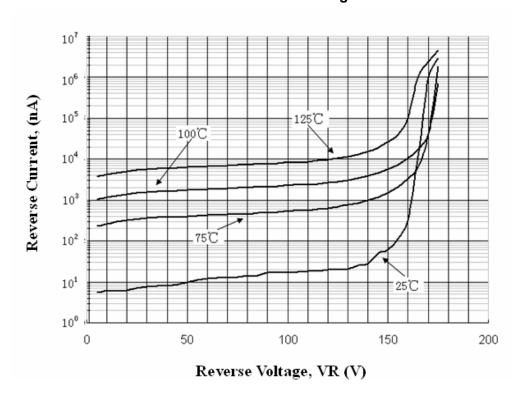
Forward Voltage vs Ambient Temperature





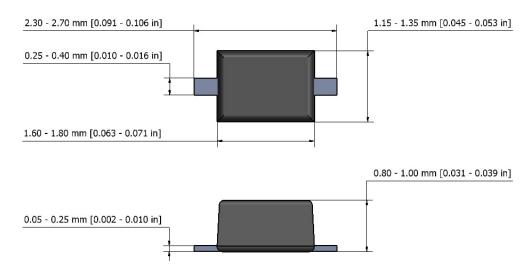


Reverse Current vs Reverse VoltageReverse





SOD-323 Package Outline



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

This datasheet presents technical data of Tak Cheong's Switching Diodes. Complete specifications for the individual devices are provided in the form of datasheets. A comprehensive Selector Guide is included to simplify the task of choosing the best set of components required for a specific application. For additional information, please visit our website http://www.takcheong.com.

Although information in this datasheet has been carefully checked, no responsibility for the inaccuracies can be assumed by Tak Cheong. Please consult your nearest Tak Cheong's sales office for further assistance.

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