

SOD-323 Plastic-Encapsulate Diodes

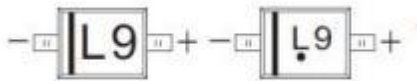
SOD-323

FEATURES

- Extremely Fast Switching Speed
- Low Forward Voltage



MARKING: L9



The marking bar indicates the cathode
Solid dot = Green molding compound device, if none, the normal device.

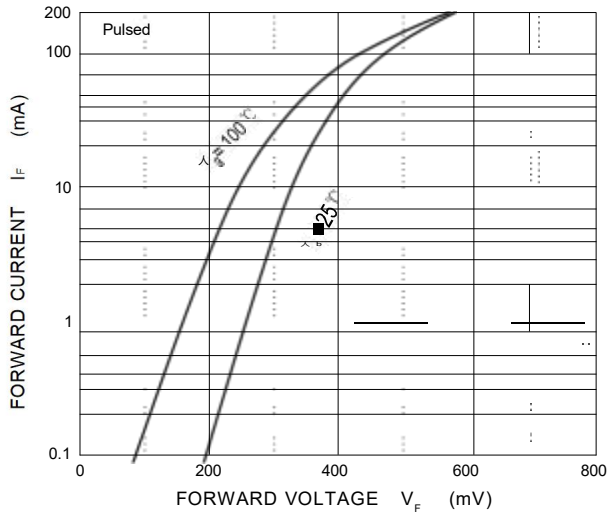
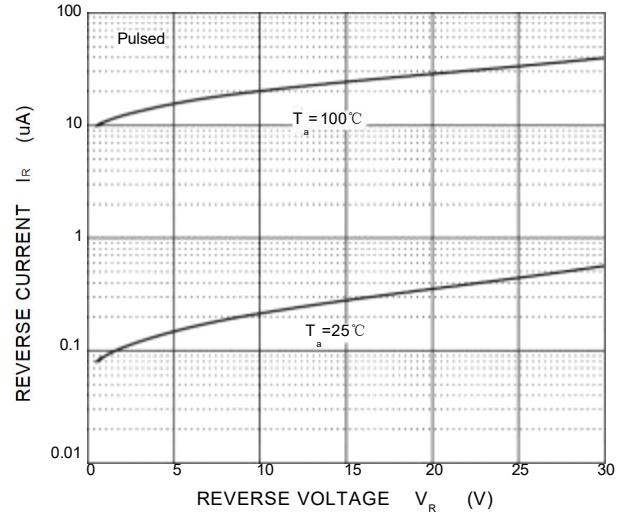
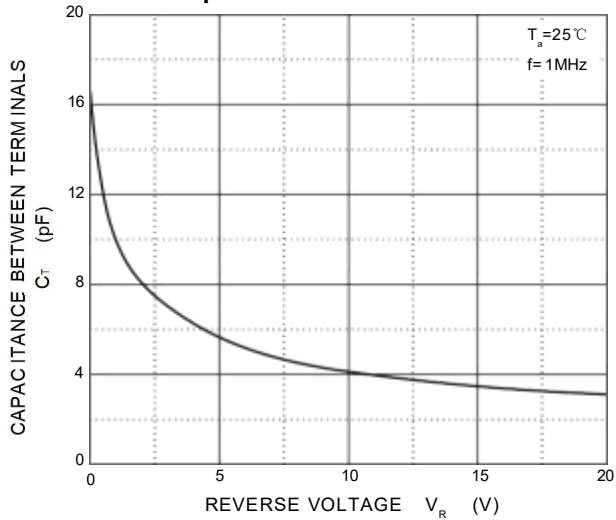
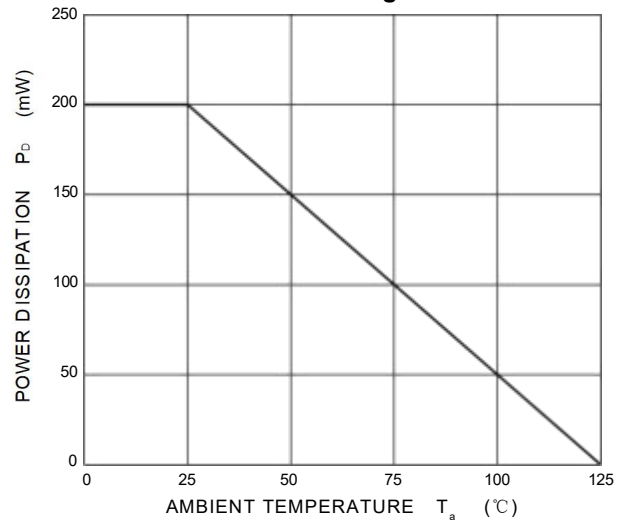
Maximum Ratings @Ta=25°C

Parameter	Symbol	Limit	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	30	V
DC Blocking Voltage	V_R	21	V
Average Rectified Output Current	I_O	100	mA
Forward Continuous Current	I_F	200	mA
Repetitive Peak Forward Current	I_{FRM}	300	mA
Non-repetitive Peak Forward Surge Current @ $t = 8.3ms$	I_{FSM}	600	mA
Power Dissipation	P_D	200	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	500	°C/W
Operating Junction Temperature Range	T_J	-40 ~ +125	°C
Storage Temperature Range	T_{STG}	-55 ~ +150	°C

Electrical Characteristics @Ta=25°C

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	$V_{(BR)}$	$I_R = 100\mu A$	30			V
Forward voltage	V_{F1}	$I_F = 0.1mA$			240	mV
	V_{F2}	$I_F = 1.0mA$			320	mV
	V_{F3}	$I_F = 10mA$			400	mV
	V_{F4}	$I_F = 30mA$			500	mV
	V_{F5}	$I_F = 100mA$			1000	mV
Reverse current	I_R	$V_R = 25V$			2.0	μA
Reverse recovery time	t_{rr}	$I_F = 10mA, I_R = 10mA \text{ to } 1mA, R_L = 100\Omega$			5.0	ns
Capacitance between terminals	C_T	$V_R = 1V, f = 1MHz$			10	pF

Typical Characteristics

Forward Characteristics

Reverse Characteristics

Capacitance Characteristics

Power Derating Curve


Notice

1. All product, product specifications and data are subject to change without notice to improve.

The right to explain is owned by CCX electronics company.

2. Confirm that operation temperature is within the specified range described in the product specification.

Avoid applying power exceeding normal rated power; exceeding the power rating under steady-state loading condition may negatively affect product performance and reliability.

3. CCX shall not be in any way responsible or liable for failure induced under deviant condition from what is defined in this document.