

Rev.A Mar.-2025

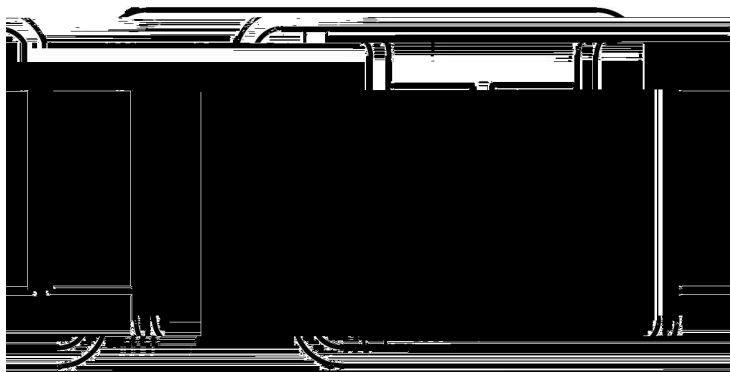
Parameter	Symbol	BRDSL24WQ	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	V
Maximum RMS Voltage	V_{RMS}	28	V
Maximum DC Blocking Voltage	V_{DC}	40	V
Maximum Average Forward Rectified Current	$I_{F AV}$	2	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I_{FSM}	50	A
Typical Junction Capacitance ¹	C_i	290	pF
Typical Thermal Resistance ⁽²⁾	R_{JA}	70	/W
Operating Junction Temperature Range	T_j	-55~+125	
Storage Temperature Range	T_{stg}	-55~+150	

Note:

1 Measured at 1MHz and applied reverse voltage of 4 V D.C.

2)P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

Parameter	Symbol	Test Conditions	BRDSL24WQ	Unit
Maximum Instantaneous Forward Voltage	V_F	$I_F=2.0A$	0.45	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	$T_a=25$	0.5	mA
		$T_a=100$	10	



SL24

Q

Note:

SL24 Product Type Code

Q: Automobile halogen-free product Code

**** Lot No. Code, code change with Lot No

Rev.A Mar.-2025