



SS0140Q

SCHOTTKY BARRIER RECTIFIER

Voltage

30 V

Current

0.1 A

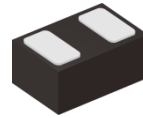
Features

- Low forward voltage drop
- Deal for automated placement
- Low power loss, high efficiency
- High surge current capability
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

- Case: DFN0603-2L Package
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.00001 ounces, 0.0004 grams

DFN0603-2L



14x



Maximum Ratings and Thermal Characteristics (T_A = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Peak to Peak Voltage (Duty 1 %, 10 KHz)	V _{PK-PK}	40	V
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	30	V
Maximum RMS Voltage	V _{RMS}	21	V
Maximum DC Blocking Voltage	V _{DC}	30	V
Maximum Average Forward Rectified Current	I _{F(AV)}	0.1	A
Peak Forward Surge Current: 8.3 ms single half sine-wave superimposed on rated load per diode	I _{FSM}	2	A
Typical Junction Capacitance Measured at 1 MHz And Applied V _R = 4V	C _J	2	pF
Typical Thermal Resistance per diode	R _{θJA} ⁽¹⁾	500	°C/W
Operating Junction Temperature Range	T _J	-55 to +150	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C



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

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Instantaneous forward voltage	V_F	$I_F = 0.01\text{ A}, T_J = 25^\circ\text{C}$	-	0.33	-	V
		$I_F = 0.1\text{ A}, T_J = 25^\circ\text{C}$	-	-	0.8	
		$I_F = 0.01\text{ A}, T_J = 125^\circ\text{C}$	-	0.22	-	
		$I_F = 0.1\text{ A}, T_J = 125^\circ\text{C}$	-	0.71	-	
Reverse current	$I_R^{(2)}$	$V_R = 10\text{ V}, T_J = 25^\circ\text{C}$	-	0.5	-	uA
		$V_R = 40\text{ V}, T_J = 25^\circ\text{C}$	-	-	10	

NOTES:

1. Mounted on a FR4 PCB, single-sided copper, mini pad
2. Short duration pulse test used to minimize self-heating effect



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TYPICAL CHARACTERISTIC CURVES

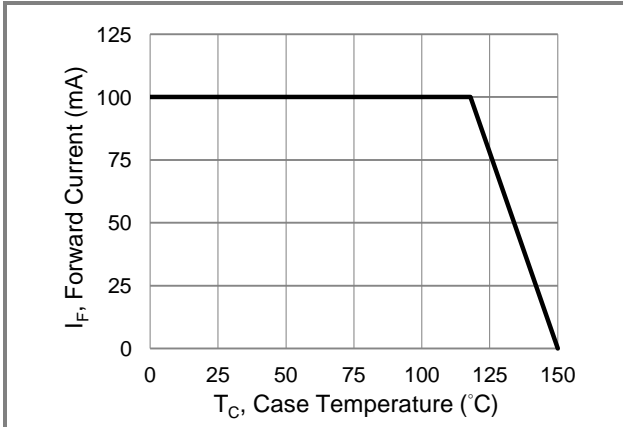


Fig.1 Forward Current Derating Curve

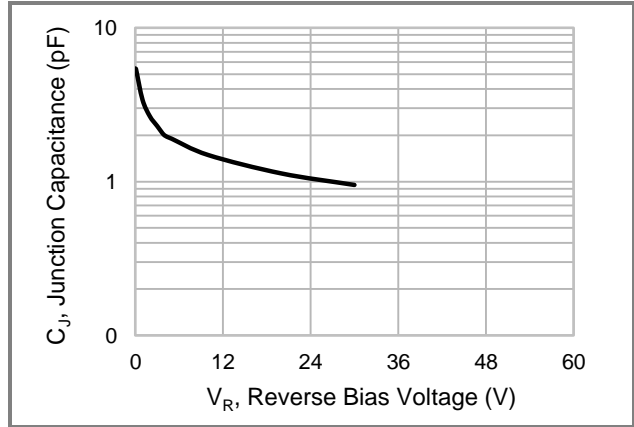


Fig.2 Typical Junction Capacitance

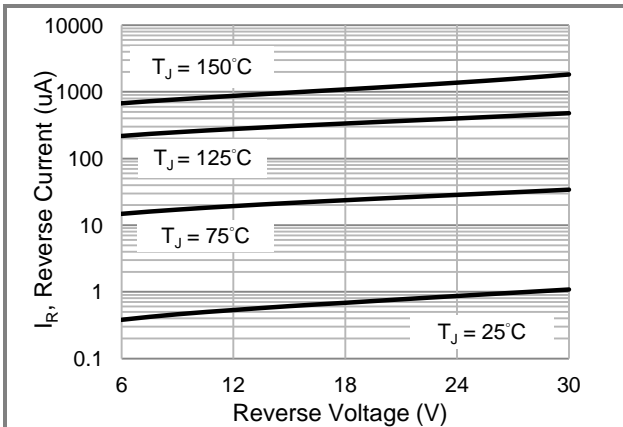


Fig.3 Typical Reverse Characteristics

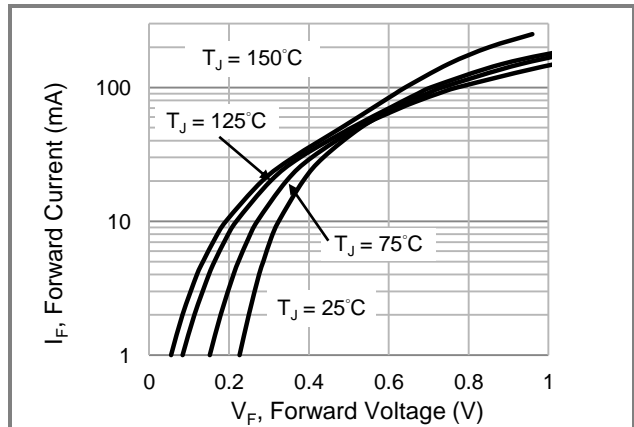


Fig.4 Typical Forward Characteristics

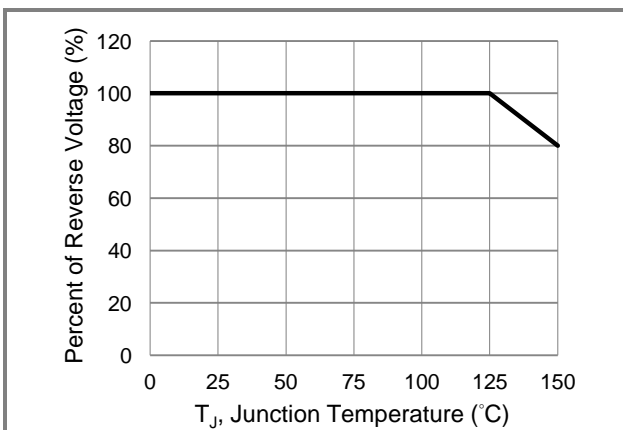


Fig.5 Operating Temperature Derating Curve

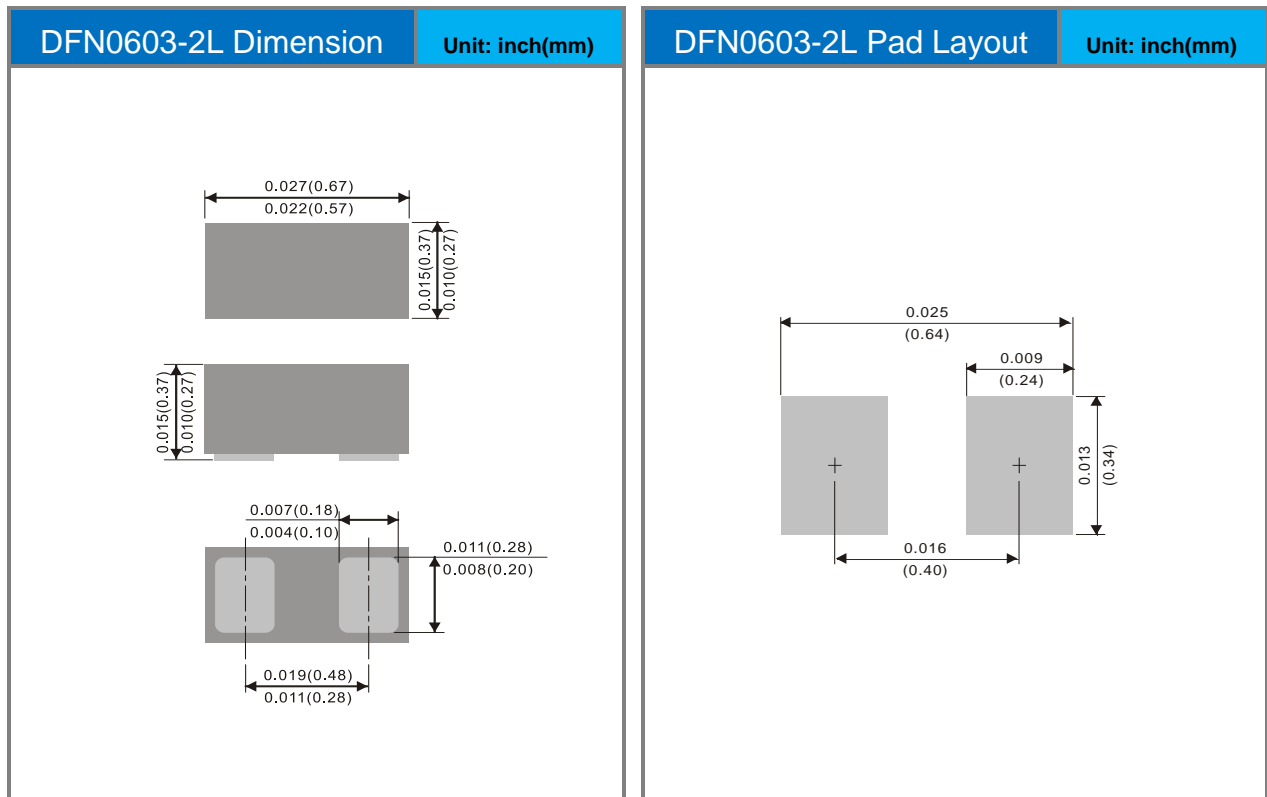


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Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
SS0140Q_R1_00001	DFN0603-2L	10K / 7" reel	14	Halogen free

Packaging Information & Mounting Pad Layout





SS0140Q

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