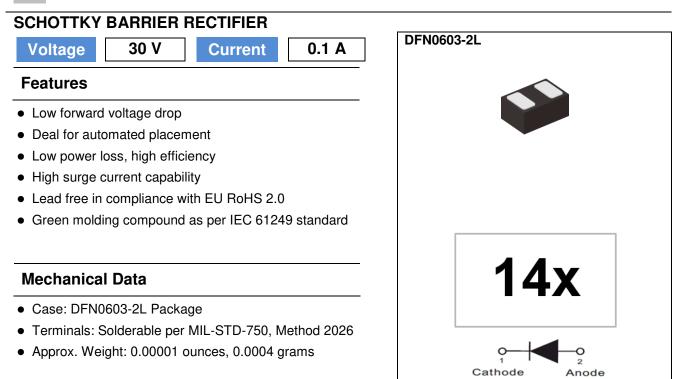
#### 

## SS0140Q



#### 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 <sub>PK-PK</sub>	40	V
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	30	V
Maximum RMS Voltage	V <sub>RMS</sub>	21	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	30	V
Maximum Average Forward Rectified Current	I <sub>F(AV)</sub>	0.1	А
Peak Forward Surge Current: 8.3 ms single half sine-wave superimposed on rated load per diode	I <sub>FSM</sub>	2	А
Typical Junction Capacitance Measured at 1 MHz And Applied $V_{R} = 4V$	CJ	2	pF
Typical Thermal Resistance per diode	$R_{\theta JA}^{(1)}$	500	°C/W
Operating Junction Temperature Range	TJ	-55 to +150	°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150	°C





## SS0140Q

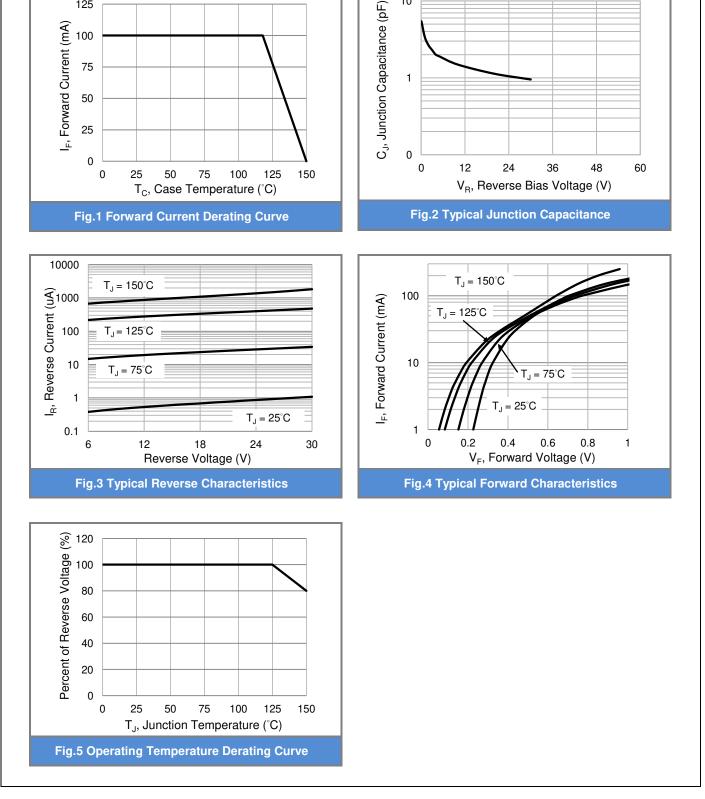
### **Electrical Characteristics** ( $T_A = 25$ °C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Instantaneous forward voltage	V <sub>F</sub>	$I_F = 0.01 \text{ A}, T_J = 25 \text{ °C}$	-	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	$I_R^{(2)}$	$V_{R} = 10 \text{ V}, \text{ T}_{J} = 25 ^{\circ}\text{C}$	-	0.5	-	uA
		$V_{\rm R} = 40 \text{ V}, \text{ T}_{\rm J} = 25 ^{\circ}\text{C}$	-	-	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** 



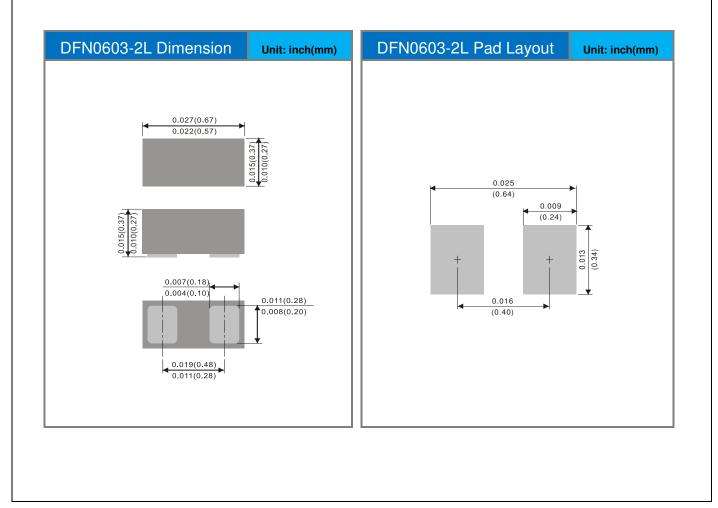


## SS0140Q

#### 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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