

Surface Mount Schottky Diodes

SKD0203N6

30V

0.2A

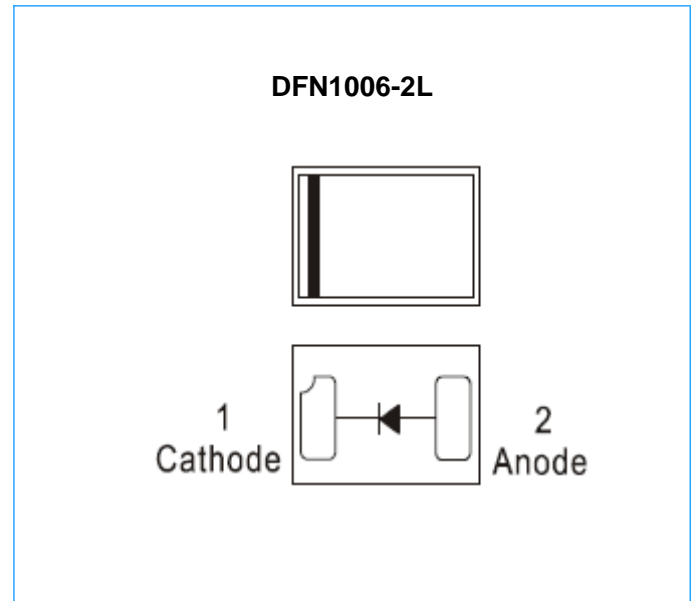
DFN1006-2L

Features

- Extremely High Switching Speed
- Surface mount package ideally suited for automatic insertion
- Lead free in compliance with EU RoHS2.0 (2011/65/EU & 2015/865/EU directive)
- Green molding compound as per IEC61249 Std. . (Halogen Free)

Mechanical Data

- Case: DFN1006-2L, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Appox. Weight: 0.00004 ounces, 0.001 grams



Absolute Ratings

Parameter	Symbol	Value	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	30	V
Maximum RMS Voltage	V_{RMS}	24	V
Maximum DC Blocking Voltage	V_{DC}	30	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	0.2	A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	2	A
Typical Thermal Resistance	$R_{\theta JA}$	430	$^{\circ}C/W$
Operating Junction Temperature Range	T_J	-55 to +125	$^{\circ}C$
Storage Temperature Range	T_{STG}	-55 to +125	$^{\circ}C$

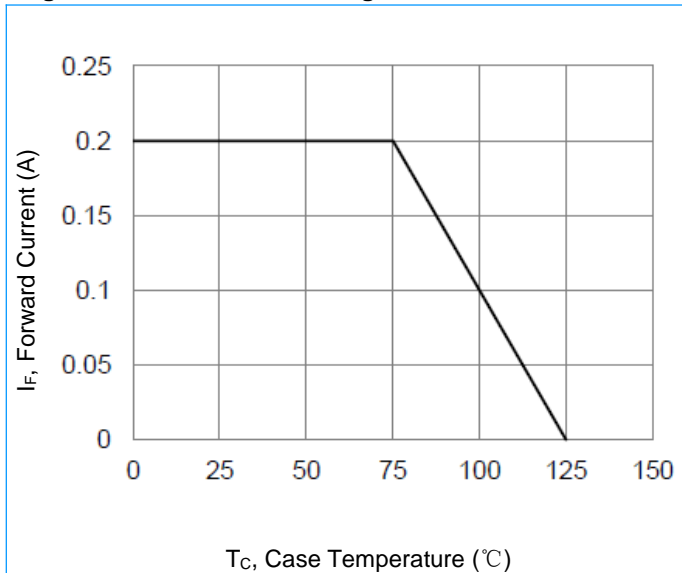
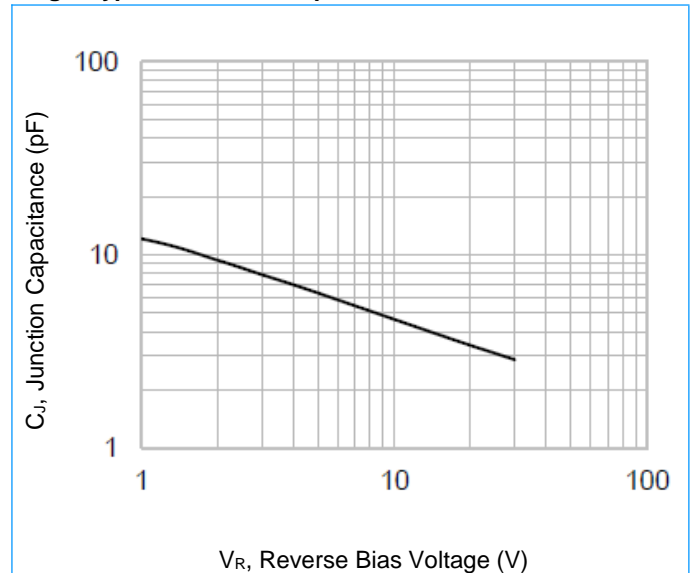
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Electrical Characteristics ($T_A=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Breakdown Voltage	V_{BR}	$I_R = 0.5\text{mA}$ $T_J = 25^\circ\text{C}$	30	--	--	V
Forward Voltage	V_F	$I_F = 10\text{mA}$ $T_J = 25^\circ\text{C}$	--	0.25	--	V
		$I_F = 20\text{mA}$ $T_J = 25^\circ\text{C}$	--	0.28	--	
		$I_F = 100\text{mA}$ $T_J = 25^\circ\text{C}$	--	--	0.60	
		$I_F = 10\text{mA}$ $T_J = 125^\circ\text{C}$	--	0.13	--	V
		$I_F = 20\text{mA}$ $T_J = 125^\circ\text{C}$	--	0.19	--	
		$I_F = 100\text{mA}$ $T_J = 125^\circ\text{C}$	--	0.30	--	
Reverse Current	I_R	$V_R = 10\text{V}$ $T_J = 25^\circ\text{C}$	--	2	--	μA
		$V_R = 10\text{V}$ $T_J = 85^\circ\text{C}$	--	100	--	μA
		$V_R = 30\text{V}$ $T_J = 25^\circ\text{C}$	--	--	30	μA
		$V_R = 30\text{V}$ $T_J = 125^\circ\text{C}$	--	3	--	mA

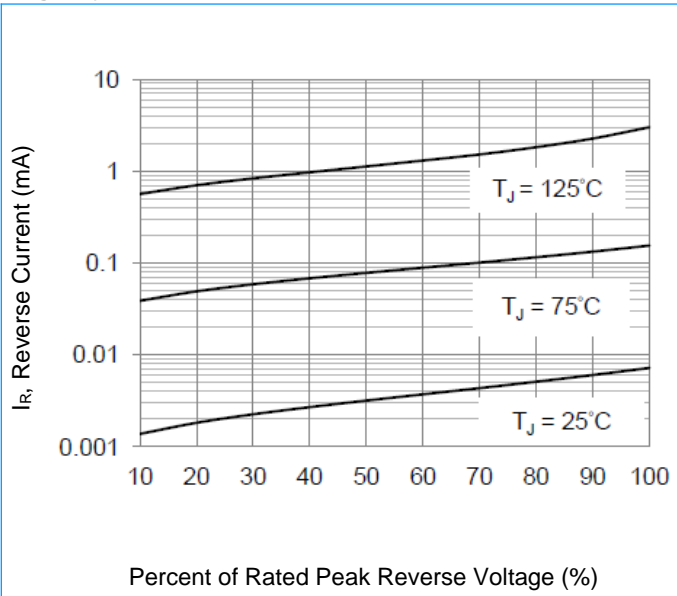
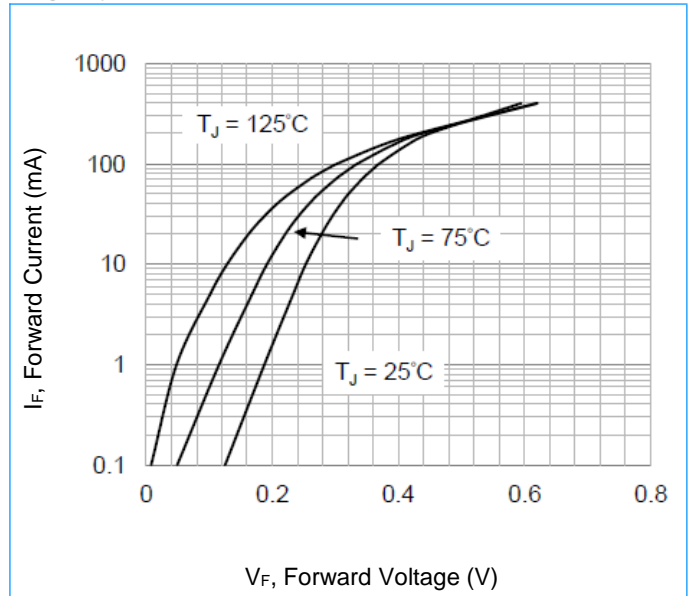
Typical Characteristic Curves

Fig1. Forward Current Derating Curve

Fig2. Typical Junction Capacitance


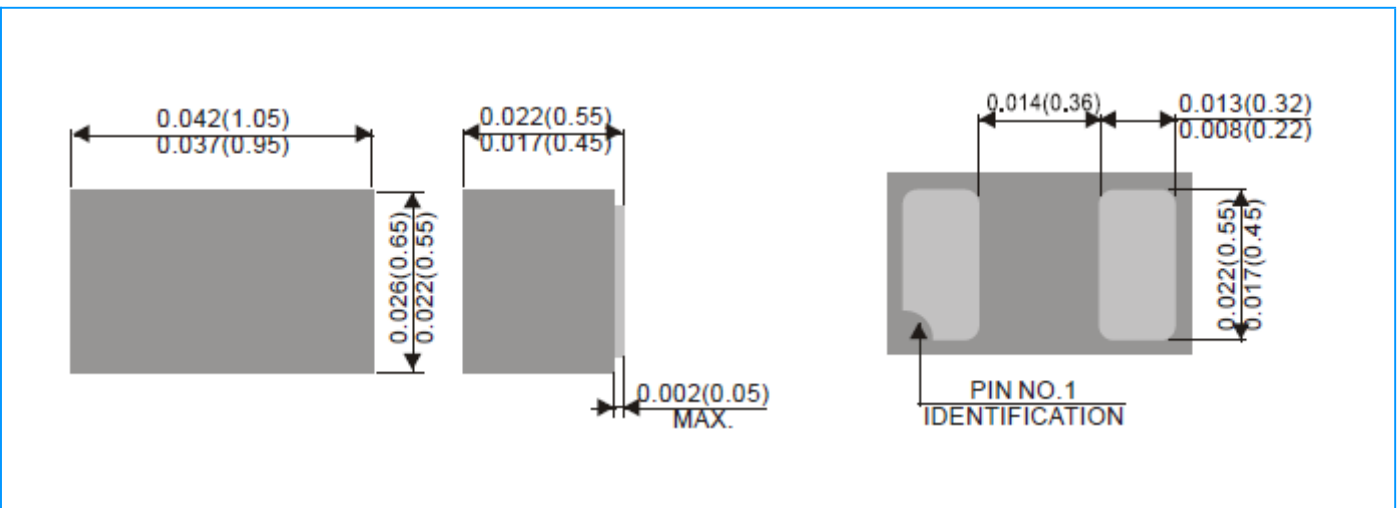
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Typical Characteristic Curves (Continue)

Fig3. Typical Reverse Characteristics

Fig4. Typical Forward Characteristics


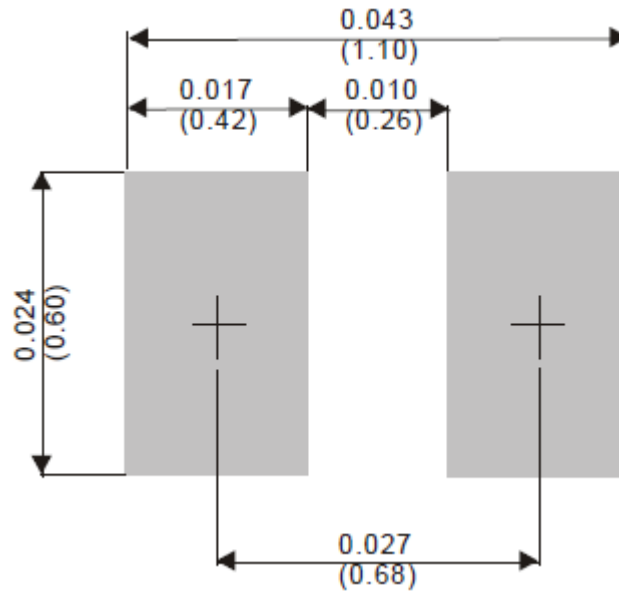
DFN1006-2L Package Outline Dimensions (Unit: inch(mm))



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DFN1006-2L Mounting Pad Layout (Unit: inch(mm))



Ordering Information

Part Number	Package	Quantity
SKD0203N6	DFN1006-2L	8000 PCS / 7" Reel