



SR0130

Advance

DIODE

SCHOTTKY BARRIER DIODE

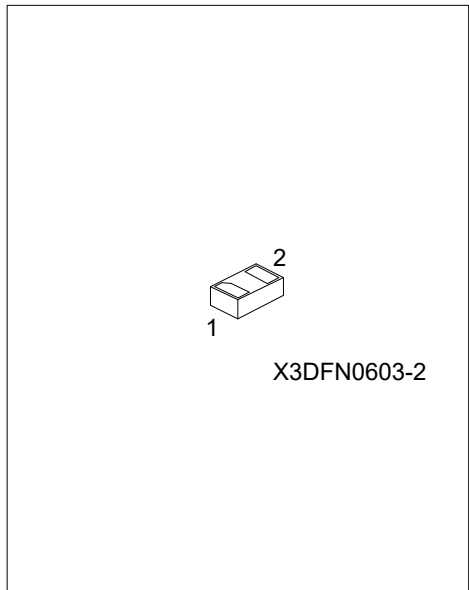
DESCRIPTION

Planar Schottky barrier diodes are encapsulated in the X3DFN0603-2 small plastic SMD package.

FEATURES

- * Low forward voltage
- * Guard ring protected
- * Small plastic SMD package

SYMBOL



ORDERING INFORMATION

Ordering Number		Package	Pin Assignment		Packing
Lead Free	Halogen Free		1	2	
SR0130L-KAQ-R	SR0130G-KAQ-R	X3DFN0603-2	K	A	Tape Reel

Note: Pin Assignment: A: Anode K: Cathode

<p>SR0130G-KAQ-R</p> <ul style="list-style-type: none"> (1) Packing Type (2) Package Type (3) Green Package 	<ul style="list-style-type: none"> (1) R: Tape Reel (2) KAQ: X3DFN0603-2 (3) G: Halogen Free and Lead Free, L: Lead Free
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MARKING



■ ABSOLUTE MAXIMUM RATINGS ($T_A = 25^\circ\text{C}$, unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	UNIT
PER DIODE			
Continuous Reverse Voltage	V_R	30	V
Average Forward Rectified Current	I_O	100	mA
Non-repetitive Peak Forward Current ($t_P < 10\text{ms}$)	I_{FSM}	2	A
Power Dissipation	P_D	200	mW
Junction Temperature	T_J	+125	$^\circ\text{C}$
Storage Temperature	T_{STG}	-40~+150	$^\circ\text{C}$

Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ THERMAL DATA

PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Ambient	θ_{JA}	625	$^\circ\text{C}/\text{W}$

Note: Device mounted on FR-4 substrate PC board, 2oz copper, with 1inch square copper plate.

■ ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage	V_F	$I_F = 10\text{mA}$			0.5	V
		$I_F = 100\text{mA}$			0.62	V
Reverse Current	I_R	$V_R = 10\text{V}$			0.35	μA
		$V_R = 30\text{V}$			0.7	μA

Note: Pulse Test: Pulse width $\leq 300\mu\text{s}$, Duty cycle $\leq 2\%$.

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