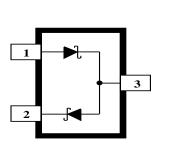
DUAL SCHOTTKY DIODE

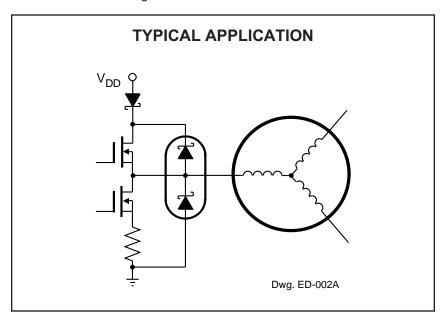


Dwg. PD-002

Schottky barrier diodes combine high rectification efficiency with high switching speeds and low series resistance. The A8920SLR dual-diode is designed specifically for hard-disk drive applications requiring low voltage drop rectification of the spindle motor back-EMF during power-down head retraction. It is supplied in a 3-lead small-outline transistor package (SOT-23/TO-236AB) for surface-mounting for use over the operating temperature range of -20°C to +85°C.

FEATURES

- Low Forward Voltage Drop 440 mV Typical at 150 mA
- 500 mA Forward Current
- 20 V Reverse Voltage



ABSOLUTE MAXIMUM RATINGS

at T_A =+25°C

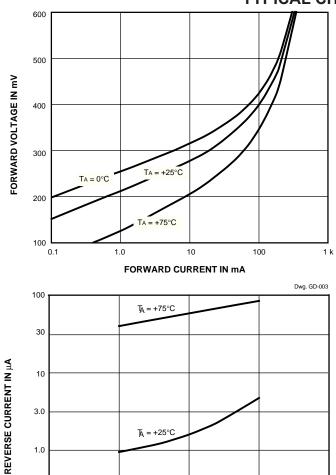
Always order by complete part number: A8920SLR.

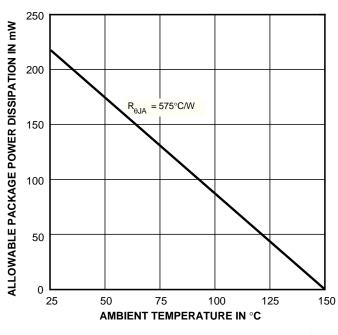


ELECTRICAL CHARACTERISTICS at T_A = +25°C (unless otherwise specified).

			Limits			
Characteristic	Symbol	Test Conditions	Min.	Тур.	Max.	Units
Reverse Breakdown Voltage	V _(BR)	I _R = 100 μA	20	_	_	V
Reverse Leakage Current	I _R	V _R = 10 V	_	1.6	20	μΑ
Forward Voltage	V _F	I _F = 50 mA	_	346	400	mV
		I _F = 150 mA	_	440	500	mV
Junction Capacitance	C _T	V _R = 0 V, f = 1 MHz	_	370	_	pF
Reverse Recovery Time	t _{rr}	$I_F = I_R = 100 \text{ mA}$	_	32	_	ns

TYPICAL CHARACTERISTICS





Dwg. GD-002

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T_A = 0°C

REVERSE VOLTAGE IN VOLTS

1.0

0.3

0.1