Quad Schottky Barrier Diode Array

These Schottky barrier diodes are designed for high speed switching applications, circuit protection, and voltage clamping. Extremely low forward voltage reduces conduction loss. Miniature surface mount package is excellent for hand held and portable applications where space is limited.

Features:

- Very Low Forward Voltage
- · Guard Ring Protected
- Ultra Small SMD Package
- Pb-Free Package is Available

Applications:

- Ultra High-Speed Switching
- Low Current Rectification
- Low Power Consumption Applications (e.g. Hand-Held Devices)

MAXIMUM RATINGS (T_J = 25°C unless otherwise noted)

Rating	Symbol	Value	Unit	
Reverse Voltage	VR	30	Volts	
Forward Power Dissipation @ T _A = 25°C Derate above 25°C	P _F	385 3.1	mW mW/°C	
Forward Current (DC)	IF	200	mA	
Junction Temperature	Tj	125	°C	

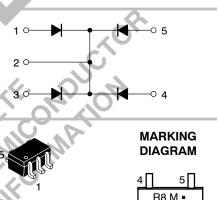
Stresses exceeding Maximum Ratings may damage the device. Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.



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30 VOLT QUAD SCHOTTKY DIODE ARRAY



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SC-88A/SOT-353 CASE 419A

STYLE 9

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- R8 = Specific Device Code
 - = Date Code
 - = Pb-Free Package
- (Note: Microdot may be in either location)

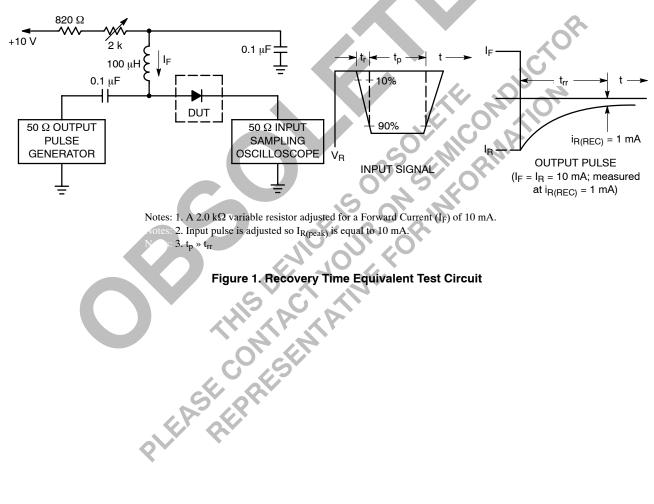
ORDERING INFORMATION

Device	Package	Shipping†	
NUR30QW5T1	SC-88A	3000/Tape & Reel	
NUR30QW5T1G	SC-88A (Pb-Free)	3000/Tape & Reel	

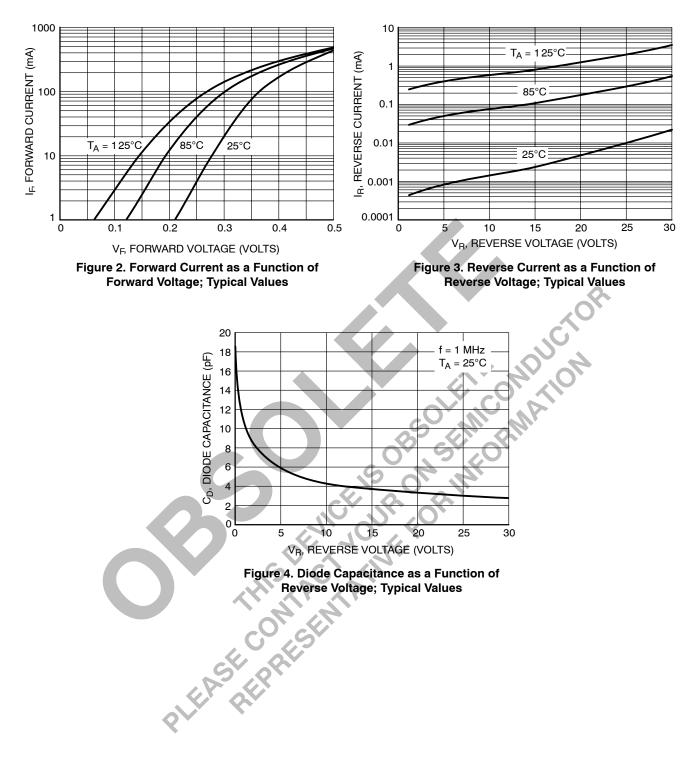
+ For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.

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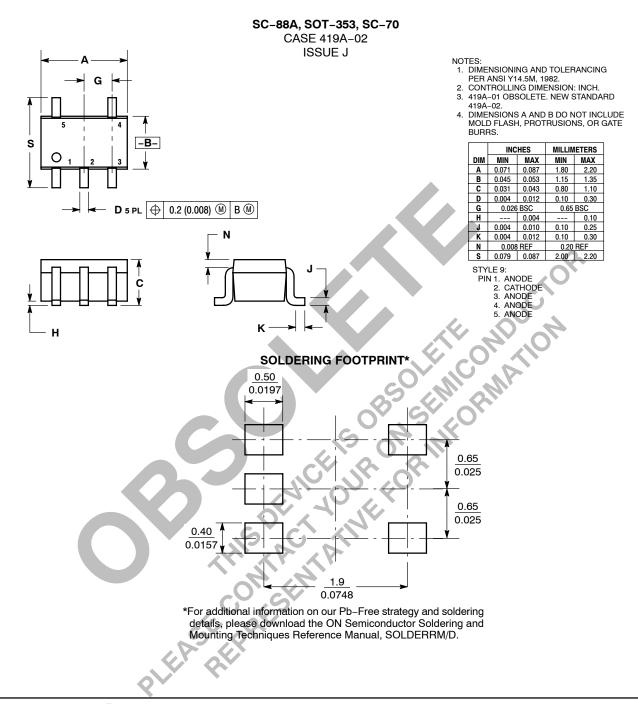
Characteristic	Symbol	Min	Тур	Max	Unit
Total Capacitance (V _R = 1.0 V, f = 1.0 MHz)	CT	-	10	20	pF
Reverse Leakage (V _R = 10 V)	IR	-	1.5	30	μAdc
Forward Voltage (I _F = 0.1 mAdc)	V _F	-	0.15	0.19	Vdc
Forward Voltage (I _F = 1.0 mAdc)	V _F	-	0.21	0.25	Vdc
Forward Voltage (I _F = 10 mAdc)	V _F	-	0.28	0.30	Vdc
Forward Voltage (I _F = 100 mAdc)	V _F	-	0.36	0.41	Vdc
Forward Voltage (I _F = 200 mAdc)	V _F	-	0.41	0.50	Vdc
Reverse Recovery Time (I _F = I _R = 10 mAdc, I _{R(REC)} = 1.0 mAdc) (Figure 1)	t _{rr}	-	5.0	-	ns



Notes: 1. A 2.0 k Ω variable resistor adjusted for a Forward Current (I_F) of 10 mA.



PACKAGE DIMENSIONS



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